Exam Code: 121201   **Paper Code: 8101**

Programme: Bachelor of Arts, Semester-I
Course Title: English (Elective)
Course Code: BARL- 1198

Time Allowed: 3 Hours   **Max. Marks: 80**

Note:- Attempt five questions in all selecting at least one from each section. Fifth question can be attempted from any section. Each question carries equal (16) marks

Section–A

1. **(a) Attempt the following literary terms:**
    Ballad, Character, Comedy, Conceit
    (b) Attempt the following words for transcription:
    Comb, Crèche, gauge, ghost, cat, bat, sow, say

    Or

2. **(a) Attempt the following literary terms:**
    Epic, Irony, Plot, Paradox
    (b) Attempt the following words for transcription:
    Arch, gross, arch, castle, float, bat, fat, sat   (2x4+1x8=16)

Section–B

3. **(a) Explain the following lines with reference to the context:**

    Gather ye rosebuds while ye may,
    Old time is still a – flying
    And this same flower that smiles today,
    Tomorrow will be dying.
    The glorious lamp of heaven, the sun,
    The higher he's a-getting,
    The sooner will his race be run,
    And nearer he's to setting.

    (b) Attempt the following questions:
    I. Write critical appreciation of the poem "A Red Red Rose".
    II. Summarise the poem "On his Blindness" by John Milton.

    Or

4. **(a)** Analyse the poem "A Red Red Rose" as a poem of eternal love and affection.
   (b) Attempt the following questions:

    I. What are the themes of the poem "The Chimney Sweeper"?
    II. How is the sonnet "My Mistress' Eyes Are Nothing like the Sun" a love sonnet.   (1x8+2x4=16)

Section-C

5. **(a) Explain the following lines with reference to the context:**
    Whene'er I passed her; but who passed without
    Much the same smile? This grew; I gave commands;
    Then all smiles stopped together. There she stands
    As if alive . Will't please you rise ?We'll meet
    The company below, then. I repeat,
    The Count your master's known munificence
    Is ample warrant that no just pretense
    Of mine for dowry will be disallowed;
    Though his fair daughter's self, as I avowed
    At starting, is my object. Nay, we'll go
    Together down, sir. Notice Neptune, though,
    Taming a sea-horse, thought a rarity,

(b) **Attempt the following questions:**
   I. summarise the poem 'My Last Duchess".
   II. What do you learn about Ozymandias from the narrative recounted in the poem "Ozymandias".

Or

6. (a) Frost's philosophy in the poem "The Road not Taken". Also summarise the poem.
   (b) **Attempt the following questions:**
   I. In the poem "To the Indians Who Died in Africa", discuss the poet's attitude towards war and its impact on human life.
   II. Comment on the use of symbolism and imagery used in the poem "The Road not Taken".

(1x8 +4x2=16)

Section–D

7. (a) **Explain the following lines with reference to the context:**

Nora :[taking her bag]. Ah, Torvald, the most wonderful thing of all would have to happen.Helmer: Tell me what that would be!

Nora: Both you and I would have to be so changed that--. Oh, Torvald, I don't believe any longer in wonderful things happening.

Helmer: But I will believe in it.Tell me? So changed that--?

Nora : That our life together would be a real wedlock. Good bye . (She goes out through the hall.)

Helmer (sinks down on a chair at the door and buries his face in his hands). Nora! Nora!(Looks round, and rises.)Empty. She is gone. (A hope flashes across his mind.)The most wonderful thing of all---?

(b) **Attempt the following questions:**
   I How does Nora feel about her past?
   II How did Nora manage to save her husband's life?

Or

8. (a) **Explain the following lines with reference to the context:**

Torwald : My little Nora, there is an important difference between your father and me. Your father's reputation as a public official was not above suspicion. Mine is, and I hope it will continue to be so, as long as I hold my office

Nora :You never can tell what mischief these men may contrive. We ought to be so well off, so snug and happy here in our peaceful home, and have no cares--you and I and the children, Torvald! That is why I beg you so earnestly--

Helmer: And it is just by interceding for him that you make it impossible for me to keep him. It is already known at the Bank that I mean to dismiss Krogstad. Is it to get about now that the new manager has changed his mind at his wife's bidding—

Nora : And what if it did?

Helmer :Of course!--if only this obstinate little person can get her way! Do you suppose I am going to make myself ridiculous before my whole staff, to let people think that I am a man to be swayed by all sorts of outside influence? I should very soon feel the consequences of it, I can tell you! And besides, there is one thing that makes it quite impossible for me to have Krogstad in the Bank as long as I am manager.

(b) **Attempt the following questions :**
   I. Why does Krogstad want to blackmail Nora? Discuss.
   II Give a character sketch of Krogstad.

(1x8 +4x2=16)

Exam Code: **122001**   Paper Code: **9101.**
(60)

Programme: Bachelor of Vocation (Retail Management) Semester-I

Course Title: Basics of Retail Management

Course Code: BVRL-1324

Time Allowed: 3 Hours   Max Marks: **80**

Candidates are required to attempt five questions, selecting atleast one question from each section. The fifth question may be attempted from any section. Each question carries **16** marks.

Section-A

1. Define Retailing. Discuss the scope and importance of retailing in an economy.   (16)

2. Explain the various career opportunities or options available in Retailing.   (16)

Section-B

3. What do you mean by strategic Planning in Retail? Explain strategic Retail Planning process also?

(16)

4. What do you mean by visual Merchandising? What are the essentials of Successful visual Merchandising?

(16)

Section-C

5. What do you mean by merchandise buying and handling and explain its process? What precautions must be taken under this stage? (16)

6. Elaborate the GAP s for improving service quality.

(16)

Section-D

7. Explain the retail store opening checklist as well as closing checklist. (16)

8. Explain the concept of retail Management Information system. What are uses of MIS in retail business?

(16)

Exam Code: 218701   Paper Code: 9102

Master of Vocation (Textile Design and Apparel Technology)
Semester I
Course Title: Communication Skills in English
Course Code: MVTM-1232

Time Allowed: 3 Hours   **Max. Marks: 50**

Note: Attempt five questions in all, selecting atleast one question from
         each section. The fifth question can be attempted from any section.
         Each question carries equal (10) marks.

Section-A

Q1 Discuss the basic forms of communication.
Q2 Discuss the principles of effective communication.

Section-B

Q3 Discuss the reading tactics and strategies.
Q4 Discuss reading purpose.

Section-C

Q5 Write a letter for placing bulk order .
Q6 Write a letter of complaint for supply of defective goods.

Section-D

Q7 Write an article on challenges of textile Industry.
Q8 Write an article on how to promote textile Industry.

Exam Code: 119601   Paper Code: 9103

Programme: Bachelor of Science (Fashion Designing) - Sem-I
Course Title: Basics of Computer
Course Code: BFDM-1126

Time allowed: 3 Hours   Max. Marks: 50

Note: Attempt five questions in all selecting at least one question from each section. Fifth question can be attempted from any section. Each question carries 10 marks.

Section A

Q 1. What is a computer? Explain the block diagram of a computer? (10)

Q 2. Write a short note on   (5*2)
   a) Data
   b) Information

Section B

Q 3. How a computer system can be classified? (10)

Q 4. Explain different hardware units of a Computer System in detail? (10)

Section C

Q 5. How do you implement the spell check and grammar check features in a word processor? (10)

Q 6. Describe the steps involved in saving and printing a document in a word processor? (10)

Section D

Q 7. Explain the usage of Computer in fashion industry? (10)

Q 8. What do you know about CAD? Explain. (10)

2124   20

Exam Code: 222601   **Paper Code: 9104**

Master of Arts (English) (Semester-I)
Course Title: Poetry Medieval to Renaissance Period
Course Code: MENL-1211

Examination Time: 3Hrs   **Marks: 64**

Question I. Attempt 4 questions in all choosing at least one from each unit. Answer each question in about 150 words. The total weightage of this section shall be 16 marks.

Section-A

Question 1. Attempt the character of the The Wife of Bath as narrated by Chaucer.

Question 2. Give in brief any four examples of irony used by Chaucer in The Prologue.

Question 3. State in brief the theme of the poem 'A Valediction: forbidding mourning'.

Question4. Discuss 'The Good Morrow' as a love sonnet.

Question5. What is the purpose of writing of the epic Paradise Lost by John Milton.

Question6. Discuss briefly any four characteristics of the style of John Milton.   4x4=16

Section-B

Note: Attempt either of the two in about 600 words.

Question II. Geoffrey Chaucer gives us a microcosm of English society in the Prologue of The Cantebury Tales. Explain

OR

Geoffrey Chaucer was both a Medievalist and a Modern. Illustrate from the "General Prologue" of the Cantebury Tales.   1x12=12

Section-C

Note: Attempt either of the two in about 600 words.

Question III. Write a note on John Donne as a pioneer amongst Metaphysical poets.

OR

Summarize in your own words the religious sonnet 'Batter My Heart' by John Donne and compare it to the other religious sonnets of Donne.   1x12=12

Section-D

Note: Attempt either of the two in about 600 words.

Question IV. Write an elaborate note on the Character of Satan in John Milton's Paradise lost as an Epic.

OR

Write a note on Milton's grand style with special reference to The description of Pandemonium in Paradise lost Book -1.   1x12=12

Section-E

Note: Attempt all the three parts from either of the two in about 600 words:

Question V.

a) Dramatic Lyric   b) Humanism   c) Conceit

OR

(a) Rise of Puritanism (b) Archaism (c) Epic   3x4=12

2124   20

Exam Code: 222601   **Paper Code: 9105**

Master of Arts (English), (Semester-I)
Course Title: History of English Literature
Course Code: MENL-1215

Time: 3 Hours   **Max Marks: 80**

Note: Attempt five questions in all, selecting atleast one question from each section in about 800 words each. Fifth question can be attempted from any section. Each question carries equal (16) marks.

Section-A

1. Discuss the meaning and origin of the term "Medievalism".
2. Discuss the main characteristics of the English Renaissance. What does the term " Renaissance " mean?

Section-B

3. Write a detailed note on Shakespearean Tragedy.
4. Write a detailed note on Ben Jonson's Comedy of Humours.

Section-C

5. Write a short essay on William Wordsworth.
6. Write a short essay on Alfred Tennyson.

Section-D

7. What were the conditions that led to the rise of the British novel?
8. Discuss Charles Dickens as a novelist.

Exam Code: 225401   Paper Code: 9106

Master of Arts (Fine Arts) (Semester-I)
Course Title: Communication Skills
(Interdisciplinary Compulsory Course)
Course Code: IDEC-1101

Time Allowed: 3 Hours   Max Marks: 80

Note: Attempt five questions in all selecting at least one question from each section and the fifth question can be attempted from any section. Each question carries 16 marks.

Section-A

1. What are the basic forms of Communication? What are the principles of effective Communication?
2. What is Basic Communication? Explain. What are the strategies to overcome barriers of Communication?

Section-B

3. Explain in detail the PSQ5R model of reading. What are these reading strategies: Vocabulary skills and Scanning skills? Elaborate.
4. a) Which important points should be kept in mind while writing a précis?
   b) Many young artists start by drawing the things they see around them, like trees, houses, or pets. This helps them get better at making art and finding a style they like. Sometimes, artists feel they must make art that other people will want to buy. This can make them unsure and sad because they feel they are changing their art too much. It's important for artists to think about why they began making art. Focusing on what they love about art can make their work feel more true and enjoyable. When artists stick to what they love, their art not only makes them happy but also looks nice to others. Finding this balance is important for feeling good about their art and having success.

   Read the above passage and make notes, using suitable abbreviations. Also summarise the passage.

Section-C

5. Write a letter to a friend inviting him or her to join you for a special family occasion.

6. Write a notice about an upcoming Christmas Fest happening in your college. Include what event it is, when and where it will happen.

Section-D

7. Discuss why telephonic skills are important. What are the main things to remember when you are talking to someone on the phone? Explain why.

8. Discuss why interview skills are important. What are the main things you should do to get ready for a job interview? Explain why each step is needed to help you do well in the interview.

Programme:	Course Code:	Exam Code	Paper Code
Bachelor of Computer Applications (Semester I)	BCAL-1333	117901	9107
Bachelor of Science (Information Technology (Semester I)	BITL-1333	118001	9115

Course Title: Applied and Discrete Mathematics

Time Allowed: 3 Hours   Max. Marks: 80

Note: Attempt five questions in all, selecting at least one question from each section. The fifth question may be attempted from any section. Each question carries 16 marks. Use of Simple calculator is allowed.

(Section A)

Q1) a) Find set builder form for $A = \{2, 4, 6, 8, 10, \ldots\}$.

b) If $A = \{x| x \in N, x$ is multiple of 3$\}$, $B = \{x| x \in Z\}$ and $C = \{x| x \in N, x$ is odd$\}$ then find $A \cap B \cup C$. Also find $A \cup B - C$.

c) State and prove Distributive law of set theory.

d) Find Dual of $A \cap \Phi \cup A^c = X - A$.

                                                        $(4 \times 4 = 16)$

Q2) a) In a survey of 1000 people, 350 admits they are suffering from high Arthritis, 505 admits they have Migraine and 240 persons are fully fit. How many people suffers from both diseases? How many Arthritis patients do not have Migraine?

b) Let $R = \{(x, y)| x \mathrel{!=} y\}$ defined on $A = \{3,6,9,12\}$. Find domain and range of relation. Also, represent relation using digraph. Is it an equivalence relation? Justify your answer.

c) In $N \times N$, show that the relation defined by $(a,b) R (c,d)$ if $ad = bc$ is an equivalence relation.

                                                         $(6, 6, 4)$

(Section B)

Q3) a) Find converse and contrapositive of "If it is Tuesday, Geeta will fast whole day."

b) Find the validity of argument "If Rosesh gets a professional degree, he will become a rich. Rosesh will get professional degree. only if he is studies. Rosesh does not study. So, he is not a rich."

                                                         $(8 \times 2 = 16)$

(For Reappear Candidates Only (2023-24))

Exam Code: 117901   Paper Code: 9108

Bachelor of Computer Applications Semester I
Course Title: Digital Electronics
Course Code: BCAL-1113

Time Allowed: 3 Hours   Max. Marks: 80

Note: Attempt five questions, selecting one question from each section. The fifth question may be attempted from any section. All questions carry 16 marks. Use of Simple calculator is allowed.

(Section A)

Q1) a) $(6B)_{16} = (?)_8$
    b) $(101110010110)_2 = (?)_{\text{Gray Code}}$
    c) $(78.125)_{10} = (?)_2$
    d) $(172.5)_8 = (?)_{10}$

Q2) a) subtract 10100101 from 10011010 using 2's complement subtraction method.
    b) How two BCD digits are added? Explain with an example.
    c) Represent $-(47)_{10}$ in 8-bit 2's Complement Representation.
    d) What do you mean by non-weighted number system? Explain with an example.

(Section B)

Q3) a) Why NOR gate is termed as universal gate? Explain in detail.
    b) Minimize $F(A,B,C,D) = \Pi(0,4,8,12)$. Also draw the Boolean circuit of minimized expression.

Q4) a) Minimize $F = A\bar{B}C + \overline{ABC} + \overline{AB} + C$. Also draw the Boolean circuit of minimized expression.
    b) State and prove distributive law of Boolean algebra.

(Section C)

Q5) a) What do you mean by Priority encoder? Explain with an example.

b) What is full subtractor? Explain its truth table and internal structure.

Q6) We need to derive a main memory of size 256 X 4 from chips of size 128 X 1.

a) How many chips will be needed to build main memory?

b) How many chip select lines are used?

c) What will be the size of decoder?

d) Draw the memory interconnections.

(Section D)

Q7) a) Explain the working of JK flip-flop with truth and excitation table.

b) Explain timing diagram of T-flip flop for different operations.

Q8) a) What do you mean by SIPO registers? Explain.

b) Explain the working of Modulo-16 Counter in detail.

Exam Code: 117901   Paper Code: 9109

Bachelor of Computer Applications Semester - I
Course Title: Communication Skills in English
Course Code: BCAL-1102

Examination Time: 3 Hrs   Marks: 80

Note: Attempt five questions in all selecting atleast one question from each section and the fifth question can be attempted from any section. Each question carries equal (16) marks.

Section-A

1.   What do you mean by Reading Skills? Explain.
2.   What do you understand by Skimming and Scanning Skills?   (Marks:16)

Section-B

3. Read the following paragraph and answer the questions that follow :

Money can be abused just as any other thing can be abused. Money in our day means power, and if a man uses that power to buy off men so that they may betray their homes, their friends or their country, or if a man uses his money for purely selfish purposes, he is abusing his power. All young people want money but money to be worthwhile must be earned. A person who inherits money or gets money from gambling or profiteering or in any other way in which he does not earn it, never knows the real value and purpose of
money. Often he abuses it rather than use it. What are the uses of money ? Money is a medium of exchange.
It is one of the mediums we use that helps us to live together. It is to be used for food, clothing, shelter, education, amusement and recreation. It is to be saved not hoarded, for sickness, old age, investment and service to others. It is to be given away to relieve suffering, for study, for mission, for welfare work, for anything that will make the world a better and happier place to live in.

Questions :
1. What does money mean in our day ?
2. Who does not know the real value of money ?
3. What are the uses of money ?
    How can money be used to make the world a better place for living ?   (Marks 16)

4. Read the following paragraph and answer the questions that follow:

Many people in Europe think that they are very civilised and the people of Asia are quite barbarous.
Is this because the people of Europe put on more clothes than the people of Asia and Africa? But clothes depend on the climate. In a cold climate men put on more clothes than in a hot climate. Or is it because theman with a gun is stronger than the man without a weapon and is therefore more civilised than him ?
Whether he is more civilised or not, the man who is weak dare not tell him that he is not or else he might get shot! You know that only a few years ago there was a great war. Most of the countries of the world were in it, and everyone of them was trying to kill as many people on the other side as possible. Millions of people were killed in this war and many thousands were maimed for life. Do you think it was civilised or sensible thing for people to kill each other like this ? It is just like two savages fighting in the jungles.

And if the savages are called barbarous, how much more barbarous are the countries that behave in that way ? So it is not easy to understand what civilisation means. Fine buildings, fine pictures and books and everything that is beautiful are certainly signs of civilisation. But an even better sign is a fine man who is unselfish and works with others for the good of all.

Questions:
1. What price a weak man may have to pay for expressing his views freely and frankly ?
2. Who according to the writer is a civilised person ?
3. The passage is :
    i. Argumentative
    ii. descriptive
    iii. narrative

4. Maimed means :
    i. imprisoned
    ii. handicapped
    iii. wounded

Section-C
5. Write a letter to your friend inviting him to spend his holidays with you.
6. Write a letter to the Superintendent of Police complaining about the rude behaviour of a policeman.

(Marks-16)

Section-D

7. Draft a resume for the post of a Football Coach in a reputed institution.
8. You are the Sales Manager of a firm. Write a memo to Managing Director informing about sales position.

(Marks-16)

Paper Code: 9116 (BSc (II)
9110 (BCA)

Programme: Bachelor of Science (Information Technology)
Semester-I
Exam Code: 118001
Course Code: BITM-1114

Programme: Bachelor of Computer Applications
Semester-I
Exam Code: 117901
Course Code: BCAM-1114

Course Title: Introduction to Programming – C

Time Allowed: 3 Hours   Max Marks: 50

Note: Attempt five questions. Each question carries equal 10 marks. Candidates are required to attempt five questions, selecting at least one question from each section. The fifth question may be attempted from any section.

SECTION-A

1. Write a note on the following:
   a. Symbolic Constants
   b. Variables
   c. Character Set
   d. Expression

2. What is the data type? Explain basic and derived data types with the help of a program.

SECTION-B

3. Explain all storage classes in detail and discuss their scope, lifetime, initial value and storage.

4. a) What do you mean by control statements? Explain the switch statement and its syntax with the help of example.
   b) Explain for-loop with the help of syntax, flowchart and example.

SECTION-C

5. What do you mean by function? What are the different types of functions available in C? How can you create your own functions? illustrate with a program.

6. a) What is the necessity of an Array? How 1D and 2D Array is represented in memory?
   b) Write a Program in C to check whether a string is palindrome or not?

SECTION-D

7. What is structure? How can you define a structure and also explain how structure elements can be accessed using the dot operator?

8. What do you mean by pointers? How can a pointer be declared and used in a program? Write a program in C to swap two number using pointers.

Paper Code: 9111

(for Reappear Candidates (2023- 24))

Programme: Bachelor of Computer Applications
Semester-I
Exam Code: 117901
Course Code: BCAL-1114

Course Title: Introduction to Programming – C

Time Allowed: 3 Hours   **Max Marks: 90**

Note: Attempt five questions. Each question carries equal 16 marks. Candidates are required to attempt five questions, selecting at least one question from each section. The fifth question may be attempted from any section.

SECTION-A

1.   Write a note on the following:
     a.   Symbolic Constants
     b.   Variables
     c.   Character Set
     d.   Expression

---

2. What is the data type? Explain basic and derived data types with the help of a program.

SECTION-B

3. Explain all storage classes in detail and discuss their scope, lifetime, initial value and storage.

4. a) What do you mean by control statements? Explain the switch statement and its syntax with the help of example.
   b) Explain for-loop with the help of syntax, flowchart and example.

SECTION-C

5. What do you mean by function? What are the different types of functions available in C? How can you create your own functions? illustrate with a program.

6. a) What is the necessity of an Array? How 1D and 2D Array is represented in memory?
   b) Write a Program in C to check whether a string is palindrome or not?

SECTION-D

7. What is structure? How can you define a structure and also explain how structure elements can be accessed using the dot operator?

8. What do you mean by pointers? How can a pointer be declared and used in a program? Write a program in C to swap two number using pointers.

Exam Code: 121101   **Paper Code: 9112**

Programme	Exam Code	Course Code
Bachelor of Arts	121101	AECD-1161
Bachelor of Computer Applications	117901	AECD-1161
Bachelor of Commerce	121101	AECD-1161

Course Title: Drug Abuse: Problem, Management and Prevention (Compulsory)

Time Allowed: 3 Hours   **Marks: 40**

Note: Attempt Five questions in all, selecting atleast one question from each section. The fifth question can be attempted from any section. Each question carries 8 marks.

Section-A

Q1: Discuss in detail the nature of drug abuse in Punjab?

पंजाब में नशीली दवाओं के दुरुपयोग की प्रकृति पर विस्तार से चर्चा करें?

ਪੰਜਾਬ ਵਿੱਚ ਨਸ਼ਿਆਂ ਦੀ ਦੁਰਵਰਤੋਂ ਬਾਰੇ ਵਿਸਥਾਰ ਵਿੱਚ ਚਰਚਾ ਕਰੋ?

Q2. Drug abuse has devastating effects on an individual's physical, mental, and emotional well-being. Explain in detail.

नशीली दवाओं के दुरुपयोग का किसी व्यक्ति के शारीरिक, मानसिक और भावनात्मक स्वास्थ्य पर विनाशकारी प्रभाव पड़ता है। विस्तार से व्याख्या।

ਨਸ਼ੀਲੇ ਪਦਾਰਥਾਂ ਦੀ ਦੁਰਵਰਤੋਂ ਦਾ ਇੱਕ ਵਿਅਕਤੀ ਦੀ ਸਰੀਰਕ, ਮਾਨਸਿਕ, ਅਤੇ ਭਾਵਨਾਤਮਕ ਤੰਦਰੁਸਤੀ 'ਤੇ ਵਿਨਾਸ਼ਕਾਰੀ ਪ੍ਰਭਾਵ ਪੈਂਦਾ ਹੈ। ਵਿਸਥਾਰ ਵਿੱਚ ਸਮਝਾਓ।

Section-B

Q3. What role is played by family in preventing drug abuse?

नशीली दवाओं के दुरुपयोग को रोकने में परिवार की क्या भूमिका है?

ਨਸ਼ੇ ਦੀ ਦੁਰਵਰਤੋਂ ਨੂੰ ਰੋਕਣ ਵਿੱਚ ਪਰਿਵਾਰ ਦੁਆਰਾ ਕੀ ਭੂਮਿਕਾ ਨਿਭਾਈ ਜਾਂਦੀ ਹੈ?

Q4: What role does media play in shaping public perception and behavior towards drug abuse?

नशीली दवाओं के दुरुपयोग के प्रति सार्वजनिक धारणा और व्यवहार को आकार देने में मीडिया क्या भूमिका निभाता है?

ਨਸ਼ਿਆਂ ਦੀ ਦੁਰਵਰਤੋਂ ਪ੍ਰਤੀ ਜਨਤਕ ਧਾਰਨਾ ਅਤੇ ਵਿਵਹਾਰ ਨੂੰ ਆਕਾਰ ਦੇਣ ਵਿੱਚ ਮੀਡੀਆ ਕੀ ਭੂਮਿਕਾ ਨਿਭਾਉਂਦਾ ਹੈ?

Section-C

Q 5: What is meant by Management of drug abuse? How difficult it is to manage an addicted person.

नशीली दवाओं के दुरुपयोग के प्रबंधन से क्या तात्पर्य है? नशे की लत वाले इंसान को संभालना कितना मुश्किल होता है।

ਨਸ਼ਾਖੋਰੀ ਦੇ ਪ੍ਰਬੰਧਨ ਤੋਂ ਕੀ ਭਾਵ ਹੈ? ਇੱਕ ਆਦੀ ਵਿਅਕਤੀ ਨੂੰ ਸੰਭਾਲਣਾ ਕਿੰਨਾ ਔਖਾ ਹੈ।

Q6: Why is relapse management often considered the most critical and difficult stage of addiction recovery?

पुनरावृत्ति प्रबंधन को अक्सर लत से उबरने का सबसे महत्वपूर्ण और कठिन चरण क्यों माना जाता है?

ਰੀਲੈਪਸ ਪ੍ਰਬੰਧਨ ਨੂੰ ਅਕਸਰ ਨਸ਼ਾ ਛੁਡਾਉਣ ਦਾ ਸਭ ਤੋਂ ਨਾਜ਼ੁਕ ਅਤੇ ਮੁਸ਼ਕਲ ਪੜਾਅ ਕਿਉਂ ਮੰਨਿਆ ਜਾਂਦਾ ਹੈ?

Section-D

Q 7:- What will be the minimum standards of services in India for Drug Prevention?

ਡਰੱਗ ਦੀ ਰੋਕਥਾਮ ਲਈ ਭਾਰਤ ਵਿੱਚ ਸੇਵਾਵਾਂ ਦੇ ਘੱਟੋ-ਘੱਟ ਮਾਪਦੰਡ ਕੀ ਹੋਣਗੇ?

भारत में नशीली दवाओं की रोकथाम के लिए सेवाओं के न्यूनतम मानक क्या होंगे? होंगे?

Q8: What are the environmental strategies in the prevention of drug abuse?

नशीली दवाओं के दुरुपयोग की रोकथाम में पर्यावरणीय रणनीतियाँ क्या हैं?

ਨਸ਼ਿਆਂ ਦੀ ਦੁਰਵਰਤੋਂ ਦੀ ਰੋਕਥਾਮ ਲਈ ਵਾਤਾਵਰਣ ਸੰਬੰਧੀ ਰਣਨੀਤੀਆਂ ਕੀ ਹਨ?

Note: Attempt five questions in all, selecting atleast one question from each section. The fifth question can be attempted from any section. Each question carries 16 marks.

Section-A

Q1) Explain the main Components of a Computer System, explaining the function of each one.

Q2) What do you mean by Software? Explain various types of Software.

Section-B

Q3) What are Printers? Explain different types of Printers.

Q4) Explain:-

(a) Ribbon

(b) Quick Access Toolbar

(c) Office button

(d) Status bar

Section-C

Q5) Explain:-

(a) Creation and working of Tables

(b) Spellchecker

Q6) What do you know about Themes, Formatting and Multimedia in context to slides.

Section-D

Q7) Explain different types of Graphs and the steps to create the graphs with examples.

Q.8. Discuss:-

(a) Data Sorting

(b) Filtering the data

(c) Auto calculate

(d) Date functions

Exam Code: 117901   **Paper Code: 9114**

Bachelor of Computer Applications, Semester-I
Course Title - Punjabi (Compulsory)
Course Code: BCAL -1421

Time Allowed -3hours   **Maximum Marks -80**

ਨੋਟ- ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਦੇ ਚਾਰ ਸੈਕਸ਼ਨ ਹੋਣਗੇ । ਵਿਦਿਆਰਥੀ ਨੇ ਕੁੱਲ ਪੰਜ ਪ੍ਰਸ਼ਨ ਕਰਨੇ ਹਨ। ਹਰ ਸੈਕਸ਼ਨ ਵਿੱਚੋਂ ਇੱਕ ਪ੍ਰਸ਼ਨ ਕਰਨਾ ਲਾਜ਼ਮੀ ਹੈ। ਪੰਜਵਾਂ ਪ੍ਰਸ਼ਨ ਕਿਸੇ ਵੀ ਸੈਕਸ਼ਨ ਵਿੱਚੋਂ ਕੀਤਾ ਜਾ ਸਕਦਾ ਹੈ। ਹਰੇਕ ਪ੍ਰਸ਼ਨ ਦੇ 16 ਅੰਕ ਹਨ ।

ਸੈਕਸ਼ਨ-।

1. ਪ੍ਰੋਫੈਸਰ ਮੋਹਨ ਸਿੰਘ ਦੀ ਕਵਿਤਾ 'ਖਨਗਾਹੀ ਦੀਵਾ ਬਲਦੀਏ' ਦਾ ਸਾਰ ਲਿਖੋ

2. ਅੰਮ੍ਰਿਤਾ ਪ੍ਰੀਤਮ ਦੀ ਕਵਿਤਾ 'ਆਖਾਂ ਵਾਰਿਸ ਸ਼ਾਹ ਨੂੰ' ਦਾ ਵਿਸ਼ਾ ਵਸਤੂ ਲਿਖੋ ?

                                                                        (16)

ਸੈਕਸ਼ਨ-II

3. ਪ੍ਰੀਤਮ ਸਿੰਘ ਦੇ ਰੇਖਾ ਚਿੱਤਰ 'ਗੰਡਾ ਸਿੰਘ' ਦਾ ਸਾਰ ਲਿਖੋ ?

4. ਅਜੀਤ ਕੌਰ ਦੁਆਰਾ ਰਚਿਤ ਰੇਖਾ ਚਿੱਤਰ 'ਨਿੱਕੀ ਕਹਾਣੀ ਦਾ ਬਾਦਸ਼ਾਹ' ਦਾ ਵਿਸ਼ਾ ਵਸਤੂ ਲਿਖੋ?

                                                                        (16)

ਸੈਕਸ਼ਨ-III

5.ਹੇਠ ਲਿਖੇ ਵਿਸ਼ਿਆਂ ਵਿੱਚੋਂ ਕਿਸੇ ਇੱਕ ਵਿਸ਼ੇ ਤੇ ਪੈਰਾਂ ਰਚਨਾ ਕਰੋ

(ੳ) ਅਖਬਾਰਾਂ ਦੇ ਲਾਭ ਤੇ ਹਾਨੀਆ

(ਅ) ਪੜੂਾਈ ਵਿੱਚ ਖੇਡਾਂ ਦੀ ਮਹੱਤਤਾ

(ੲ) ਮੋਬਾਈਲ ਫੋਨ

6.ਹੇਠ ਲਿਖੇ ਪੈਰੇ ਨੂੰ ਪੜੂ ਕੇ ਪ੍ਰਸ਼ਨਾਂ ਦੇ ਉੱਤਰ ਲਿਖੋ-

ਜ਼ਿੰਦਗੀ ਦਾ ਆਦਰਸ਼ ਰੂਹਾਨੀ ਤੇ ਸਰੀਰਕ ਪੂਰਨਤਾ ਹੋਣਾ ਚਾਹੀਦਾ ਹੈ। ਇਸ ਦਾ ਭਾਵ ਇਹ ਹੈ ਕਿ ਸਰੀਰ ਜਵਾਨ ਹੋ ਕੇ ਵੀ ਪੂਰੇ ਜੋਬਨ ਉੱਤੇ ਪਹੁੰਚਣ ਤੋਂ ਬਾਅਦ ਮੁੱਦਤਾਂ ਤੱਕ ਚੁਸਤ ਅਤੇ ਤਕੜੀ ਸਿਹਤ ਵਿੱਚ ਰਹੇ। ਸਾਰੇ ਅੰਗ ਚੰਗੀ ਤਰ੍ਹਾਂ ਕੰਮ ਕਰਦੇ ਰਹਿਣ ਤੇ ਅੰਤ ਸਮੇਂ ਜ਼ਿੰਦਗੀ ਵੱਲੋਂ ਰੁਝੇਵਾਂ ਜਿਹਾ ਮਨ ਵਿੱਚ ਪੈਦਾ ਹੋ ਜਾਵੇ ਤੇ ਮੌਤ ਕੋਲੋਂ ਡਰਨ ਦੀ ਥਾਂ ਮੌਤ ਦੀ ਚਾਹ ਜਿਹੀ ਪੈਦਾ ਹੋ ਜਾਵੇ ਤੇ ਜਿਸ ਵੇਲੇ ਮੌਤ ਆਵੇ ਮਨ ਭਾਰਾ ਹੋਣ ਦੀ ਥਾਂ ਹੌਲਾ ਜਿਹਾ ਹੋ ਜਾਵੇ।

1. ਸਰੀਰਕ ਪੂਰਨਤਾ ਤੋਂ ਕੀ ਭਾਵ ਹੈ?

2. ਮੌਤ ਦੇ ਡਰ ਤੋਂ ਕਿਵੇਂ ਬਚਿਆ ਜਾ ਸਕਦਾ ਹੈ?

3. ਮੌਤ ਦੀ ਚਾਹ ਪੈਦਾ ਹੋਣ ਤੋਂ ਕੀ ਭਾਵ ਹੈ?

4. ਪੈਰ੍ਹੇ ਦਾ ਢੁਕਵਾਂ ਸਿਰਲੇਖ ਲਿਖੋ।

                                                                        (16)

ਸੈਕਸ਼ਨ-V

7. ਉਚਾਰਣ ਅੰਗਾਂ ਤੇ ਨੋਟ ਲਿਖੋ?

8.ਸਵਰ ਦੀ ਪਰਿਭਾਸ਼ਾ ਦਿੰਦਿਆਂ ਇਸ ਦੇ ਵਰਗੀਕਰਨ ਤੇ ਨੋਟ ਲਿਖੋ?

                                                                        (16)

2124

Exam Code: 118001   Paper Code: 9117

Bachelor of Science (Information Technology)- Semester I

Course Title: Fundamentals of Computers

Course Code: BITL-1115

Time: 3 Hours   Max. Marks: 80

Note: Attempt five questions, selecting one question from each section. The fifth question can be attempted from any section. Each question carries 16 marks.

Section-A

Q1) Explain the main Components of a Computer System, explaining the function of each one.

Q2) What do you mean by Software? Explain various types of Software.

Section-B

Q3) What are Printers? Explain different types of Printers.

Q4) Explain:-

(a) Ribbon (b) Quick Access Toolbar (c) Office button (d) Status bar

Section-C

Q5) Explain:-

(a) Creation and working of Tables   (b) Spellchecker

Q6) What do you know about Themes, Formatting and Multimedia in context to slides.

Section-D

Q7) Explain different types of Graphs and the steps to create the graphs with examples.

Q.8. Discuss:-

(a) Data Sorting

(b) Filtering the data

(c) Auto calculate

(d) Date functions

Exam Code: 118001   **Paper Code: 9118**

Bachelor of Science (Information Technology)- Semester I
Course Title: Fundamentals of Computers
Course Code: BITL-1115

Time: 3 Hours   **Max. Marks: 60**

Note: Attempt five questions, selecting one question from each section. The fifth question can be attempted from any section. Each question carries 12 marks.

Section A

Q 1. What is computer? Explain various input devices?   (12)

Q 2. What is a secondary storage device?   (12)

Section B

Q 3. What is an Operating System? Explain functions of an OS?   (12)

Q 4. What is Booting? Explain its types in detail?   (12)

Section C

Q 5. (a) Difference between Save and Save as option?   (6*2)
    (b) How can a page can be set up to perform task on word?

Q 6. Write a short note on   (4*3)
    a) Bookmark
    b) Page break
    c) Header and Footer

Section D

Q 7. What is PowerPoint? Explain different views available in PowerPoint?

(12)

Q 8. Explain various formatting features to be implemented in presentation?

(12)

2124   20

(For Reappear Candidates only (2023-24))

Exam Code: 408801   Paper Code: 9119

Diploma in Computer Applications (Semester-I)
Course Title: Programming in C
Course Code: DCAL-1113

Time: 3 Hours   Max. Marks: 80

Note: Attempt five questions, selecting one question from each section. The fifth question can be attempted from any section. Each question carries 16 marks.

SECTION-A

Q1:- What are the fundamentals data types in C? Explain the use of each type of data type. (16)

Q2:- What are the meanings of precedence and associativity of operators in C with an example? (16)

SECTION-B

Q3:- What are the different library functions for formatted input or output in C? Explain giving examples. (16)

Q4:- Write down the purpose of the switch statement. Summarize the syntax rules associated with the use of switch statement. Explain with an example. (16)

SECTION-C

Q5:- Define recursion. Write a recursive function for finding the factorial of a number. (16)

Q6:- Discuss the various storage classes available in C. (16)

SECTION-D

Q7:- a) Write a program using the structure to get the details of the students which includes Roll no., Name, Subject Name and Marks from the user and print it.

b) Differentiate between Structure and Union. (10, 6)

Q8:- Define pointer. How a pointer variable can be declared and how can it be accessed? Why are pointers better than arrays? Explain with a program example. (16)

2124   20

Exam Code: 223701   Paper Code: 9120
Master of Science (Computer Science) - Semester I
Course Title: Discrete Structures
Course Code: MCSL-1114

Time: 3 Hours   Max. Marks: 80

Note: Attempt five questions, selecting one question from each section. The
fifth question can be attempted from any section. Each question
carries 16 marks.

(Section A)

Q1) a) Find power set of {0, {0}, {{0}}}. Also find its cardinality.

b) Prove that $(A \cap B) \times C = (A \times C) \cap (B \times C)$

c) Explain pigeonhole principle with example.

d) Out of 500 students at a college 70 plays cricket, 85 plays football, 25
plays badminton, 10 plays both cricket and football, 6 plays both
cricket and badminton, 3 plays both badminton and football. No
student plays all three games. How many plays none of these games?

   **(4 X 4 = 16)**

Q2) a) Give an example of relation that is symmetric and transitive.

b) Find SoR if R = {(1,1), (1,3), (2,1), (2,2), (3,1), (3,3)} and S =
{(1,1), (1,3), (2,1), (2,3), (3,3), (3,4), {4,1), (4,3)}. Also find RoR⁻¹.

c) let f: Z → Z⁺ defined as f(x) = |x-1|, where x belongs to Z. Is function
f bijection? Justify your answer.   **(4, 8, 4)**

(Section B)

Q3) a) Show that the sum of degree of all the vertices in a graph is twice the
number of edges in that graph.

b) Construct a K₄ complete graph.

c) What is complete bipartite graph? How many edges will be there in an
undirected complete bipartite graph K₃,₂?   **(4, 4, 8)**

Q4) a) What is Eulerian cycle? Does following graph has Eulerian cycle? If
yes, find it otherwise state the reason.
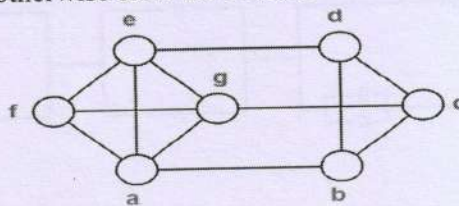
b) Find minimum cost spanning tree of following graph along with its cost.
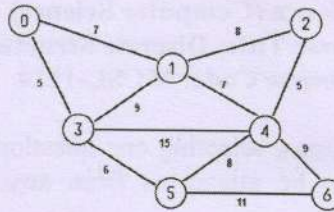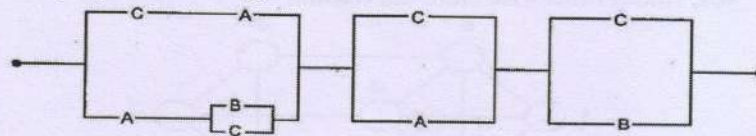

(8 X 2 = 16)

(Section C)

Q5) a) In how many ways 6 posts can be filled in an interview with 10 candidates?

b) In how many ways, 2 blue, 4 red and 3 green balls are drawn from a black box if all the balls are to be drawn?

c) In how many ways six persons including one pair of father-son can sit around a table if they are made to sit together?

d) In how many ways can a basketball team of 5 members selected from a pool of 7 Under-19 and 5 Above-19 players if atleast 1 player from each pool is to be selected? (4 X 4 = 16)

Q6) Solve $Q(J) + 2Q(J - 1) - 15Q(J - 2) = (-3)^J + 6.4^J$. (16)

(Section D)

Q7) a) What is Commutative Ring? Prove that $(Z, +, .)$ is a commutative Ring with unity.

b) What is Field? What property a ring must satisfy to be declared a field? (8 X 2 = 16)

Q8) a) Convert $F(A, B, C, D) = \overline{A}\overline{B}D + \overline{A}\overline{C}\overline{D} + \overline{A}D + ABC\overline{D}$ into canonical form.

b) Simplify the circuit given below:-

(8 X 2 = 16)

Exam Code: 121201 (B.A.)
            121301 (B.Sc.) *Bachelor of Science*

Paper Code: 9121

Programme: Bachelor of Arts (Semester-I)
Course Title: Computer Science
(Computer Fundamentals and PC Software)
Course Code: BARM-1134
           BECM-1134.

Max. Marks: 50

Time Allowed: 3 Hours
Note: Attempt five questions, selecting one question from each section. The fifth question can be attempted from any section. Each question carries 10 marks.

Section –A

Q1. What is a Computer System? Explain its functional components.

Q2. What do you know about Booting? Explain.

Section- B

Q3. Explain structure and working of hard disk.

Q4. What are Output devices? Explain any two in detail.

Section-C

Q5. What do you know about formatting in Word Processor? Explain various options available to format the text.

Q6. Explain in detail creation of Tables in MS Word, as clearly as you can.

Section-D

Q7. Explain different Views of PowerPoint.

Q8. What are simple and enhanced text formatting features available in MS PowerPoint? How can you add timing to your slides?

20

Note: Attempt five questions in all, selecting atleast one question from each section. The fifth question can be attempted from any section. Each question carries 10 marks.

Section –A

Q1. What is a Computer System? Explain its functional components.

Q2. What do you know about Booting? Explain.

Section- B

Q3. Explain structure and working of hard disk.

Q4. What are Output devices? Explain any two in detail.

Section-C

Q5. What do you know about formatting in Word Processor? Explain various options available to format the text.

Q6. Explain in detail creation of Tables in MS Word, as clearly as you can.

Section-D

Q7. Explain different Views of PowerPoint.

Q8. What are simple and enhanced text formatting features available in MS PowerPoint? How can you add timing to your slides?

Exam Code: 121201

Paper Code: 9123

Bachelor of Arts Semester I
Course Title: Home Science
(Family Resource Management and Hygiene)
Course Code: BARM - 1284

Time: 3 Hours

Max. Marks: 60

ਨੋਟ: ਹਰੇਕ ਭਾਗ ਵਿੱਚੋਂ ਘੱਟੋ-ਘੱਟ ਇੱਕ ਪ੍ਰਸ਼ਨ ਚੁਣ ਕੇ, ਕੁੱਲ ਪੰਜ ਸਵਾਲਾਂ ਦੀ ਕੋਸ਼ਿਸ਼ ਕਰੋ। ਪੰਜਵਾਂ ਸਵਾਲ ਕਿਸੇ ਵੀ ਸੈਕਸ਼ਨ ਤੋਂ ਕਰਨ ਦੀ ਕੋਸ਼ਿਸ਼ ਕੀਤੀ ਜਾ ਸਕਦੀ ਹੈ। ਹਰੇਕ ਸਵਾਲ ਵਿੱਚ 12 ਅੰਕ ਹੁੰਦੇ ਹਨ।

ਸੈਕਸ਼ਨ ਏ

Q1. ਘਰ ਦੇ ਕੰਮਾਂ ਬਾਰੇ ਵਿਸਥਾਰ ਨਾਲ ਚਰਚਾ ਕਰੋ।

Q2. ਘਰ ਕਿਰਾਏ 'ਤੇ ਦੇਣ ਦਾ ਕੀ ਮਤਲਬ ਹੈ? ਕਿਰਾਏ 'ਤੇ ਮਕਾਨ ਲੈਣ ਦੇ ਫਾਇਦੇ ਅਤੇ ਨੁਕਸਾਨ ਲਿਖੋ।

ਸੈਕਸ਼ਨ ਬੀ

Q3. ਕਲਾ ਦੇ ਸਿਧਾਂਤ ਕੀ ਹਨ? ਵਿਸਥਾਰ ਵਿੱਚ ਸਮਝਾਓ.

Q4. ਵੱਖ-ਵੱਖ ਕਮਰਿਆਂ ਵਿੱਚ ਰੰਗਾਂ ਦੀ ਚੋਣ ਨੂੰ ਪ੍ਰਭਾਵਿਤ ਕਰਨ ਵਾਲੇ ਕਾਰਕ ਕੀ ਹਨ?

ਸੈਕਸ਼ਨ ਸੀ

Q5. ਛੂਤ ਦੀਆਂ ਬਿਮਾਰੀਆਂ ਨੂੰ ਕੰਟਰੋਲ ਕਰਨ ਲਈ ਰੋਕਥਾਮ ਉਪਾਅ ਲਿਖੋ।

Q6. ਮਲੇਰੀਆ ਦੇ ਫੈਲਣ ਦਾ ਢੰਗ, ਲੱਛਣ ਅਤੇ ਰੋਕਥਾਮ ਦੇ ਉਪਾਅ ਅਤੇ ਸੁਰੱਖਿਆ ਦੇ ਤਰੀਕੇ ਲਿਖੋ।

ਸੈਕਸ਼ਨ ਡੀ

Q7. ਭੋਜਨ ਦੇ ਜ਼ਹਿਰ ਦੇ ਕਾਰਨ ਅਤੇ ਲੱਛਣ ਕੀ ਹਨ?

Q8. ਰਿਵਰਸ ਓਸਮੋਸਿਸ (RO) ਦੀ ਬਣਤਰ ਅਤੇ ਕਾਰਜ ਨੂੰ ਲਿਖੋ।

Exam Code: 121201

Paper Code: 9124.

Programme: Bachelor of Arts Semester-I

Course Title: Physical Education

Course Code: BARM-1384

Time Allowed: 3 Hours

Max Marks: 50

Note:- Candidates are required to attempt Five Questions, selecting at least one question from each section. Fifth question may be attempted from any section. All questions carry 10 marks.

Section-A

1. Explain these terms Education, Physical Education, Physical Training and Coaching.
2. Explain the Need and Importance of Physical Education.

Section-B

3. Describe the various stage of Growth and Development in Physical Education and sports.
4. What are Age and Sex differences in Physical Education and Sports.

Section-C

5. Write notes on the following: Punjab Sports Department and N.S.N.I.S.

6. Give a brief account of the activities and objectives of Sports Authority of India.

Section-D

7. Describe elaborately about the Asian Games.

8. Write about the Khelo India Games.

Hindi Version

सैक्शन –ऐ

1. शिक्षा, शारीरिक शिक्षा, शारीरिक प्रशिक्षण और कोचिंग इन शब्दों को विस्तृत करें।

2. शारीरिक शिक्षा की आवश्यकता एवं महत्व बताइये।

सैक्शन –बी

3. शारीरिक शिक्षा और खेल में वृद्धि और विकास के विभिन्न चरणों का वर्णन करें।

4. शारीरिक शिक्षा और खेल में उग्र और लिंग का अंतर क्या हैं?

सैक्शन –सी

5. निम्नलिखित पर नोट्स लिखें: पंजाब खेल विभाग और एन.एस. एन.आई.एस।

6. भारतीय खेल प्राधिकरण की गतिविधियों और उद्देश्यों का संक्षिप्त विवरण दीजिए।

सैक्शन –डी

7. एशियाई खेलों के बारे में विस्तार से वर्णन करें।

8. खेलों इंडिया गेम्स के बारे में लिखें।

Punjabi Version

ਸੈਕਸ਼ਨ-ਏ

1. ਸਿੱਖਿਆ, ਸਰੀਰਕ ਸਿੱਖਿਆ, ਸਰੀਰਕ ਸਿਖਲਾਈ ਅਤੇ ਕੋਚਿੰਗ ਇਹਨਾਂ ਸ਼ਬਦਾਂ ਨੂੰ ਵਿਸਤ੍ਰਿਤ ਕਰੋ।
2. ਸਰੀਰਕ ਸਿੱਖਿਆ ਦੀ ਲੋੜ ਅਤੇ ਮਹੱਤਤਾ ਬਾਰੇ ਦੱਸੋ।

ਸੈਕਸ਼ਨ-ਬੀ

3. ਸਰੀਰਕ ਸਿੱਖਿਆ ਅਤੇ ਖੇਡਾਂ ਵਿੱਚ ਵਿਕਾਸ ਅਤੇ ਵਿਕਾਸ ਦੇ ਵੱਖ ਵੱਖ ਪੜਾਵਾਂ ਦਾ ਵਰਣਨ ਕਰੋ।
4. ਸਰੀਰਕ ਸਿੱਖਿਆ ਅਤੇ ਖੇਡਾਂ ਵਿੱਚ ਉਮਰ ਅਤੇ ਲਿੰਗ ਦਾ ਅੰਤਰ ਕੀ ਹਨ?

ਸੈਕਸ਼ਨ-ਸੀ

5. ਹੇਠ ਲਿਖੇ 'ਤੇ ਨੋਟ ਲਿਖੋ: ਪੰਜਾਬ ਖੇਡ ਵਿਭਾਗ ਅਤੇ N.S.N.I.S.
6. ਸਪੋਰਟਸ ਅਥਾਰਟੀ ਆਫ਼ ਇੰਡੀਆ ਦੀਆਂ ਗਤੀਵਿਧਿਆਂ ਅਤੇ ਉਦੇਸ਼ਾਂ ਬਾਰੇ ਸੰਖੇਪ ਜਾਣਕਾਰੀ ਦਿਓ।

ਸੈਕਸ਼ਨ-ਡੀ

7. ਏਸ਼ੀਅਨ ਖੇਡਾਂ ਬਾਰੇ ਵਿਸਥਾਰ ਨਾਲ ਵਰਣਨ ਕਰੋ।
8. ਖੇਲੋ ਇੰਡੀਆ ਖੇਡਾਂ ਬਾਰੇ ਲਿਖੋ।

Exam Code: 121201

Paper Code: 9125

Programme: Bachelor of Arts (Semester-I)
Course Title: English (Compulsory)
Course Code: BARL – 1212

Time Allowed: 3 hrs

Max. Marks: 40

Section-A

(1x10=10)

I. Attempt any ten of the following:

(A) Use the following verbs to complete the sentences. Sometimes you need the negative:

Go,	rise,	make,	flow,
Enjoy			

1. The earth..... round the sun.
2. The sun...... in the east.
3. Bees..... honey.
4. The river Amazon........ into the Atlantic Ocean.
5. She......... Playing the Piano .

(B) Put in 'been' or 'gone'.
1. James is on holiday. He's...... to Italy.
2. Hello! I've just........ to the shops. I' ve bought lots of things.
3. Tom has....... out. He'll be back in about an hour.
4. Alice isn't here at the moment. She's ....to the shop to get a newspaper.
5. 'Are you going to the bank?' No, I' ve already....... to the bank'

(C) Complete the sentences using the following verbs in the correct forms:

Write,	sell,	throw,	catch,	teach,
	shut			

1. Mozart....... more than 600 pieces of music.
2. We couldn't afford to keep our car, so we........it.
3. Joe...... the ball to Sue, who.......it.
4. 'How did you learn to drive?' 'My father .... me.
5. It was cold, so I........the window.

Section-B

Q. 2. Write a paragraph on one of the following topics in about 150 words: (1x5=5)

   I. Life in a village
   II. Problem of unemployment

Q. 3. Translate the following paragraph in English: (1x5=5)

संघर्ष के मार्ग में अकेला ही चलना पड़ता है। कोई बाहरी शक्ति आपकी सहायता नहीं करती है। परिश्रम, दृढ़ इच्छा शक्ति व लगन आदि मानवीय गुण व्यक्ति को संघर्ष करने और जीवन में सफलता प्राप्त करने का मार्ग प्रशस्त करते हैं। दो महत्त्वपूर्ण तथ्य स्मरणीय है – प्रत्येक समस्या अपने साथ संघर्ष लेकर आती है। प्रत्येक संघर्ष के गर्भ में विजय निहित रहती

है। एक अध्यापक छोड़ने वाले अपने छात्रों को यह संदेश दिया था – तुम्हें जीवन में सफल होने के लिए समस्याओं से संघर्ष करने को अभ्यास करना होगा। हम कोई भी कार्य करें, सर्वोच्च शिखर पर पहुँचने का संकल्प लेकर चलें। सफलता हमें कभी निराश नहीं करेगी। समस्त ग्रंथों और महापुरुषों के अनुभवों को निष्कर्ष यह है कि संघर्ष से डरना अथवा उससे विमुख होना अहितकर है, मानव धर्म के प्रतिकूल है और अपने विकास को अनावश्यक रूप से बाधित करना है। आप जागिए, उठिए वढ़-संकल्प और उत्साह एवं साहस के साथ संघर्ष रूपी विजय रथ पर चढ़िए और अपने जीवन के विकास की बाधाओं रूपी शत्रुओं पर विजय प्राप्त कीजिए।

Or

ਸੰਘਰਸ਼ ਦਾ ਰਾਹ ਇਕੱਲਿਆਂ ਹੀ ਤੁਰਨਾ ਪੈਂਦਾ ਹੈ। ਕੋਈ ਬਾਹਰੀ ਤਾਕਤ ਤੁਹਾਡੀ ਮਦਦ ਨਹੀਂ ਕਰਦੀ। ਸਖ਼ਤ ਮਿਹਨਤ, ਦ੍ਰਿੜ ਇੱਛਾ ਸ਼ਕਤੀ ਅਤੇ ਸਮਰਪਣ ਆਦਿ ਮਨੁੱਖੀ ਗੁਣ ਮਨੁੱਖ ਨੂੰ ਜੀਵਨ ਵਿੱਚ ਸੰਘਰਸ਼ ਕਰਨ ਅਤੇ ਸਫਲਤਾ ਪ੍ਰਾਪਤ ਕਰਨ ਦਾ ਰਾਹ ਪੱਧਰਾ ਕਰਦੇ ਹਨ। ਯਾਦ ਰੱਖਣ ਲਈ ਦੇ ਮਹੱਤਵਪੂਰਨ ਤੱਥ - ਹਰ ਸਮੱਸਿਆ ਆਪਣੇ ਨਾਲ ਸੰਘਰਸ਼ ਲੈ ਕੇ ਆਉਂਦੀ ਹੈ। ਹਰ ਸੰਘਰਸ਼ ਦੇ ਕੇਂਦਰ ਵਿੱਚ ਜਿੱਤ ਹੁੰਦੀ ਹੈ। ਇੱਕ ਅਧਿਆਪਕ ਨੇ ਆਪਣੇ ਛੱਡਣ ਵਾਲੇ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਇਹ ਸੰਦੇਸ਼ ਦਿੱਤਾ - ਤੁਹਾਨੂੰ ਜ਼ਿੰਦਗੀ ਵਿੱਚ ਕਾਮਯਾਬ ਹੋਣ ਲਈ ਸਮੱਸਿਆਵਾਂ ਨਾਲ ਲੜਨ ਦਾ ਅਭਿਆਸ ਕਰਨਾ ਪਵੇਗਾ। ਅਸੀਂ ਜੋ ਵੀ ਕੰਮ ਕਰਦੇ ਹਾਂ, ਸਾਨੂੰ ਉੱਚੇ ਸਿਖਰ 'ਤੇ ਪਹੁੰਚਣ ਦੇ ਸੰਕਲਪ ਨਾਲ ਅੱਗੇ ਵਧਣਾ ਚਾਹੀਦਾ ਹੈ। ਸਫਲਤਾ ਸਾਨੂੰ ਕਦੇ ਨਿਰਾਸ਼ ਨਹੀਂ ਕਰੇਗੀ। ਸਾਰੇ ਧਰਮ-ਗ੍ਰੰਥਾਂ ਅਤੇ ਮਹਾਪੁਰਖਾਂ ਦੇ ਅਨੁਭਵਾਂ ਤੋਂ ਸਿੱਟਾ ਇਹ ਨਿਕਲਦਾ ਹੈ ਕਿ ਟਕਰਾਅ ਤੋਂ ਡਰਨਾ ਜਾਂ ਇਸ ਤੋਂ ਮੂੰਹ ਮੋੜਨਾ ਹਾਨੀਕਾਰਕ ਹੈ, ਮਨੁੱਖੀ ਧਰਮ ਦੇ ਉਲਟ ਹੈ ਅਤੇ ਬੇਲੋੜਾ ਸਾਡੇ ਵਿਕਾਸ ਵਿੱਚ ਰੁਕਾਵਟ ਹੈ। ਤੁਸੀਂ ਜਾਗੋ, ਉੱਠੇ, ਦ੍ਰਿੜ ਇਰਾਦੇ, ਉਤਸਾਹ ਅਤੇ ਹੌਂਸਲੇ ਨਾਲ ਸੰਘਰਸ਼ ਦੇ ਜਿੱਤ ਰੱਥ 'ਤੇ ਚੜ੍ਹੋ ਅਤੇ ਆਪਣੇ ਜੀਵਨ ਦੇ ਵਿਕਾਸ ਵਿੱਚ ਰੁਕਾਵਟਾਂ ਦੇ ਰੂਪ ਵਿੱਚ ਦੁਸ਼ਮਣਾਂ ਨੂੰ ਜਿੱਤ ਲਿਓ।

Section-C

Q. 4. Attempt any one in about 300 words: (1x6=6)

a) Whom does Iona tell the story of his son's death and why? (The Lament)

b) What story does Bachelor tell the children? (The Story Teller)

Q. 5. Attempt any two in about 50 words each: (2x2=4)

a) Write a character sketch of Madame Orielle. (The Umbrella)

b) Write a brief note on the narrator's experience in the "The Luncheon". (The Luncheon)

c) What is the reputation of Gheesu and Madhav in the village? (The Shroud)

Section-D

Q. 6. Attempt any one in about 300 words: (1x6=6)

a) How Grimsdyke's life was deeply influenced by the power of women? (The Power of Women)

b) Discuss the ideas about Democracy in 'A Dialogue on Democracy'.

Q. 7. Attempt any two in about 50 words each: (2x2=4)

a) Why is a spendthrift likely to have too many friends? (On Spendthrifts)

b) What does the declaration say about marriage and family? (Universal Declaration of Human Rights)

c) How could the author be useful from the medical point of view? (Symptoms)

2124

20

Exam Code: 121101

Paper Code: 9126

Bachelor of Commerce (Semester-I)
Course Title: Drug Abuse: Problem, Management and Prevention (Compulsory)
Course Code: AECD-1161

Time Allowed: 3 Hours

Marks: 40

Note: Attempt Five questions in all, selecting atleast one question from each section. The fifth question can be attempted from any section. Each question carries 8 marks.

Section-A

Q1: What is the nature of the problem drug abuse in India? Elaborate its extent in the Punjab?

भारत में नशीली दवाओं के दुरुपयोग की समस्या की प्रकृति क्या है? पंजाब में इसकी सीमा का विस्तार से वर्णन करें?

ਭਾਰਤ ਵਿੱਚ ਨਸ਼ਿਆਂ ਦੀ ਦੁਰਵਰਤੋਂ ਦੀ ਸਮੱਸਿਆ ਦੀ ਪ੍ਰਕਿਰਤੀ ਕੀ ਹੈ? ਪੰਜਾਬ ਵਿੱਚ ਇਸਦੀ ਹੱਦ ਬਾਰੇ ਦੱਸੋ?

Q2: How far the law and order has been successful in dealing with Drug menace in Punjab?

पंजाब में नशीली दवाओं के खतरे से निपटने में कानून और व्यवस्था कितनी सफल रही है?

ਪੰਜਾਬ ਵਿੱਚ ਨਸ਼ਾਖੋਰੀ ਨਾਲ ਨਜਿੱਠਣ ਵਿੱਚ ਕਾਨੂੰਨ ਅਤੇ ਵਿਵਸਥਾ ਕਿੱਥੋਂ ਤੱਕ ਸਫਲ ਰਹੀ ਹੈ?

Section-B

Q3: What is the role of Family therapy in addressing substance use disorders/ drug addiction?

मादक द्रव्यों के सेवन संबंधी विकारों/नशीले पदार्थों की लत को संबोधित करने में पारिवारिक चिकित्सा की क्या भूमिका है?

ਪਦਾਰਥਾਂ ਦੀ ਵਰਤੋਂ ਸੰਬੰਧੀ ਵਿਕਾਰ/ਨਸ਼ੇ ਦੀ ਲਤ ਨੂੰ ਹੱਲ ਕਰਨ ਵਿੱਚ ਪਰਿਵਾਰਕ ਥੈਰੇਪੀ ਦੀ ਕੀ ਭੂਮਿਕਾ ਹੈ?

Q4: What are the benefits and risks of using medications to treat drug disorders.

ਨਸ਼ੀਲੇ ਪਦਾਰਥਾਂ ਦੇ ਵਿਕਾਰ ਦੇ ਇਲਾਜ ਲਈ ਦਵਾਈਆਂ ਦੀ ਵਰਤੋਂ ਕਰਨ ਦੇ ਕੀ ਫਾਇਦੇ ਅਤੇ ਜੋਖਮ ਹਨ।

नशीली दवाओं के विकारों के इलाज के लिए दवाओं के उपयोग के लाभ और जोखिम क्या हैं।

Section-C

Q5: How can parents establish a strong parent-child relationship to prevent drug abuse?

नशीली दवाओं के दुरुपयोग को रोकने के लिए माता-पिता एक मजबूत माता-पिता-बच्चे का संबंध कैसे स्थापित कर सकते हैं?

ਨਸ਼ੇ ਦੀ ਦੁਰਵਰਤੋਂ ਨੂੰ ਰੋਕਣ ਲਈ ਮਾਪੇ ਇੱਕ ਮਜ਼ਬੂਤ ਮਾਤਾ-ਪਿਤਾ-ਬੱਚੇ ਦਾ ਰਿਸ਼ਤਾ ਕਿਵੇਂ ਸਥਾਪਿਤ ਕਰ ਸਕਦੇ ਹਨ?

Q6: What is the role of counseling in preventing drug abuse in schools?

स्कूलों में नशीली दवाओं के दुरुपयोग को रोकने में परामर्श की क्या भूमिका है?

ਸਕੂਲਾਂ ਵਿੱਚ ਨਸ਼ਿਆਂ ਦੀ ਦੁਰਵਰਤੋਂ ਨੂੰ ਰੋਕਣ ਵਿੱਚ ਕਾਉਂਸਲਿੰਗ ਦੀ ਕੀ ਭੂਮਿਕਾ ਹੈ?

Section-D

Q7: How can media be used to educate and sensitise the public about the risks of drug abuse?

नशीली दवाओं के दुरुपयोग के खतरों के बारे में जनता को शिक्षित और संवेदनशील बनाने के लिए मीडिया का उपयोग कैसे किया जा सकता है?

ਨਸ਼ਿਆਂ ਦੀ ਦੁਰਵਰਤੋਂ ਦੇ ਜੋਖਮਾਂ ਬਾਰੇ ਜਨਤਾ ਨੂੰ ਜਾਗਰੂਕ ਕਰਨ ਅਤੇ ਸੰਵੇਦਨਸ਼ੀਲ ਬਣਾਉਣ ਲਈ ਮੀਡੀਆ ਦੀ ਵਰਤੋਂ ਕਿਵੇਂ ਕੀਤੀ ਜਾ ਸਕਦੀ ਹੈ?

Q8: What amendments have been made to the NDPS Act to strengthen drug control measures?

नशीली दवाओं के नियंत्रण उपायों को मजबूत करने के लिए एनडीपीएस अधिनियम में क्या संशोधन किए गए हैं?

ਡਰੱਗ ਕੰਟਰੋਲ ਦੇ ਉਪਾਵਾਂ ਨੂੰ ਮਜ਼ਬੂਤ ਕਰਨ ਲਈ ਐਨਡੀਪੀਐਸ ਐਕਟ ਵਿੱਚ ਕਿਹੜੀਆਂ ਸੋਧਾਂ ਕੀਤੀਆਂ ਗਈਆਂ ਹਨ?

Exam Code: 121201   **Paper Code: 9128**

Programme: Bachelor of Arts, Semester-I
Course Title: English (Elective)
Course Code: BARL- 1198

Time Allowed: 3 Hours   **Max. Marks: 80**

Section–A

1. **Attempt any three literary terms from the following in approximately 100 words:**   (3x4=12)

   Simile, Irony, Imagery, Conflict, Alliteration.

Section–B

2. **Attempt any twelve words for transcription from the following :**   (1x12=12)

   Gauge , Castle , Gross, Tongue , Sing , Tooth , Door , Seen , Toothpick, Fight, White , Foul , Say , Tough , Shut , Claim

Section-C

3. (a) **Explain any one in the reference to the context in approximately 300 words :**   (1x8=8)

   Busy old fool, unruly sun,
   Why dost thou thus,
   Must to thy motions lovers' seasons run?
   Saucy pedantic wretch, go chide
   Late school boys and sour prentices
   Go tell court huntsmen that the king will ride,
   Call country ants to harvest offices,
   Love all alike, no seasons know nor clime,
   Nor hours, days, months, which are the rags of time.

   Or

   (b) Two roads diverged in a yellow wood
   And sorry I could not travel both
   And be one traveller, long I stood
   And looked down one as far as I could
   To where it bent in the undergrowth
   Then took the other, as just as fair,

   And having perhaps the better claim,
   Because it was grassy and wanted wear;
   Though as for that the passing there
   Had worn them really about the same,

1. **Attempt any two questions out of the following in 500 words each:**   (2x10=20)

   a) How is Autumn personified by John Keats in the poem "To Autumn"?

   b) Write a summary of the poem "Ode to Solitude" by Alexander Pope.

   c) How does Milton express his gratitude and sorrow towards god in his poem "On his blindness"? Discuss.

2124   20

Section–D

5. Explain anyone in the reference to the context in approximately 300 words: (1x8=8)

(a) . Helmer : "Listen to her, Mrs Linde! She had danced her Tarantella, and it had been a tremendous success, as it deserved--although possibly the performance was a trifle too realistic--a little more so, I mean, than was strictly compatible with the limitations of art. But never mind about that! The chief thing is, she had made a success--she had made a tremendous success. Do you think I was going to let her remain there after that, and spoil the effect? No, indeed! I took my charming little Capri maiden--my capricious little Capri maiden, I should say--on my arm; took one quick turn round the room; a curtsey on either side, and, as they say in novels, the beautiful apparition disappeared. An exit ought always to be effective, Mrs Linde; but that is what I cannot make Nora understand. Pooh! this room is hot. *[Throws his domino on a chair, and opens the door of his room].* Hullo! it's all dark in here. Oh, of course--excuse me--. *[He goes in, and lights some candles].*

NORA *[in a hurried and breathless whisper]:* Well?
MRS LINDE *[in a low voice]:* I have had a talk with him.
NORA: yes, and--
MRS LINDE: Nora, you must tell your husband all about it.
NORA *[in an expressionless voice]:* I knew it.
MRS LINDE: You have nothing to be afraid of as far as Krogstad is concerned; but you must tell him.
NORA: I won't tell him.
MRS LINDE: Then the letter will.
NORA: Thank you, Christine. Now I know what I must do. Hush--!

Or

(b) **MRS LINDE** :In my first moment of fright, it was. But twenty-four hours have elapsed since then, and in that time I have witnessed incredible things in this house. Helmer must know all about it. This unhappy secret must be disclosed; they must have a complete understanding between them, which is impossible with all this concealment and falsehood going on.

KROGSTAD: Very well, if you will take the responsibility. But there is one thing I can do in any case, and I shall do it at once.
MRS LINDE *[listening]:* You must be quick and go! The dance is over; we are not safe a moment longer.
KROGSTAD: I will wait for you below.
MRS LINDE: Yes, do. You must see me back to my door...
KROGSTAD : I have never had such an amazing piece of good fortune in my life! *Goes out through the outer door. The door between the room and the hall remains open].*
MRS LINDE *[tidying up the room and laying her hat and cloak ready]:* What a difference! what a difference! Someone to work for and live for-a home to bring comfort into. That I will do, indeed. I wish they would be quick and come-- *[Listens].* Ah, there they are now. I must put on my things.
Takes up her hat and cloak. HELMER'S and NORA'S voices are heard outside; a key is turned, and HELMER brings NORA almost by force into the hall. She is in an Italian costume with a large black shawl around her; he is in evening dress and a black domino which is flying open].

6. Attempt any two questions out of the following in 500 words each (2x10=20)
   a) How do dolls represent Nora as a character? What is the importance of the title of the play *A Doll's House*?
   b) Elaborate upon the ending of *A Doll's House*?
   c) Compare the relationship between Mrs, Linde and Krogstad with that of Nora and Torwald?

Bachelor of Arts (Semester-I)
Course Title- HINDI (Elective) (हिंदी साहित्य का इतिहास)
Course Code: BARM-1268

समय : 3 घन्टे   कुल अंक :60

नोट : यह प्रश्नपत्र चार भागों में विभाजित है। प्रश्नपत्र की इकाई एक,दो,तीन और चार में दिए गए प्रश्नों में से विद्यार्थियों को एक –एक प्रश्न करना होगा। पांचवां प्रश्न विद्यार्थी किसी भी भाग में से कर सकता है। सभी प्रश्न 12 अंकों के हैं।

भाग –क

1. आदिकाल की प्रमुख परिस्थितियाँ बताएं।

2. आदिकाल का लौकिक काव्यधारा का परिचय दें।

भाग-ख

3. सूफी काव्यधारा की विशेषताएं स्पष्ट करें।

4. राम काव्यधारा की विशेषताएं स्पष्ट करें।

भाग –ग

5. रीतिकाल की प्रमुख प्रवृत्तियों पर प्रकाश डालें।

6. रीतिमुक्त काव्यधारा की प्रवृत्तियों पर प्रकाश डालें।

भाग-घ

7. आधुनिक काल की प्रमुख परिस्थितियाँ लिखें।

8. भारतेंदु युग की विशेषताएं लिखें।

Exam Code: 121201   Paper Code: 9130

Bachelor of Arts (Semester-I)
Course Title: Punjabi (Elective)
Course Code: BARL-1208

ਸਮਾਂ ਤਿੰਨ ਘੰਟੇ   ਕੁਲ ਅੰਕ-80

ਨੋਟ- ਹਰੇਕ ਭਾਗ ਵਿਚੋਂ ਘੱਟੋ ਘੱਟ ਇਕ ਪ੍ਰਸ਼ਨ ਦੀ ਚੋਣ ਕਰਦੇ ਹੋਏ ਕੁਲ ਪੰਜ ਪ੍ਰਸ਼ਨ ਕਰੋ। ਪੰਜਵਾਂ ਪ੍ਰਸ਼ਨ ਕਿਸੇ ਵੀ ਭਾਗ ਵਿਚੋਂ ਕੀਤਾ ਜਾ ਸਕਦਾ ਹੈ। ਸਾਰੇ ਪ੍ਰਸ਼ਨਾਂ ਦੇ ਅੰਕ ਬਰਾਬਰ ਹਨ। ਹਰੇਕ ਪ੍ਰਸ਼ਨ ਦੇ 16 ਅੰਕ ਹਨ।

ਸੈਕਸ਼ਨ-A

1. ਕਿਸੇ ਦੇ ਕਾਵਿ-ਬੰਦਾਂ ਦੀ ਪ੍ਰਸੰਗ ਸਹਿਤ ਵਿਆਖਿਆ ਕਰੋ-

ਉ) ਡਾਲੀ ਨਾਲੋਂ ਤੋੜ ਨ ਸਾਨੂੰ, ਅਸਾਂ ਹੱਟ ਮਹਿਕ ਦੀ ਲਾਈ

ਲਖ ਗਾਹਕ ਜੇ ਸੁੰਘੇ ਆਕੇ, ਖਾਲੀ ਕੋਇ ਨ ਜਾਈ

ਤੂੰ ਜੇ ਇਕ ਤੋੜਕੇ ਲੈ ਗਿਓਂ, ਇਕ ਰਹਿ ਜਾਸਾਂ,

ਉਹ ਭੀ ਪਲਕ ਝਲਕ ਦਾ ਮੇਲਾ, ਰੂਪ ਮਹਿਕ ਨਸ ਜਾਸੀ।

ਅ) ਕੁਝ ਰੁੱਖ ਮੈਨੂੰ, ਪੁੱਤ ਲਗਦੇ ਨੇ, ਕੁਝ ਰੁੱਖ ਲਗਦੇ ਮਾਵਾਂ

ਕੁਝ ਰੁੱਖ ਨੂੰਹਾਂ ਧੀਆਂ ਲਗਦੇ, ਕੁਝ ਰੁੱਖ ਵਾਂਗ ਭਰਾਵਾਂ

ਕੁਝ ਰੁੱਖ ਮੇਰੇ ਬਾਬੇ ਵਾਕਣ, ਪੱਤਰ ਟਾਵਾਂ ਟਾਵਾਂ

ਕੁਝ ਰੁੱਖ ਮੇਰੀ ਦਾਦੀ ਵਰਗੇ ਚੁਰੀ ਪਾਵਣ ਕਾਵਾਂ।

ੲ) ਨੀ ਅਜ ਕੋਈ ਆਇਆ ਸਾਡੇ ਵਿਹੜੇ,

ਤਕਣ ਚੰਨ ਸੂਰਜ ਦੁਕ ਦੁਕ ਨੇੜੇ।

ਲਸੇ ਨੀ ਉਹਦਾ ਮੱਥਾ ਤਾਰਿਆਂ ਵਾਂਗੂ

ਆਇਆ ਨੀ ਖੌਰੇ ਅੰਬਰ ਘੁੰਮ ਘੰਮ ਕਿਹੜੇ।

ਸ) ਜੇ ਘਰਾਂ ਤੋਂ ਤੁਰ ਪਏ ਹੋ ਦੋਸਤੋ, ਮੁਸ਼ਿਕਲਾਂ ਤੇ ਔਕੜਾਂ ਤੋਂ ਡਰੇ

ਜਦ ਰੁਕੇ ਤਾਂ ਨਕਸ਼ ਬਣਕੇ ਹੀ ਰੁਕੇ, ਜਦ ਤੁਰੇ ਤਾਂ ਰੌਸ਼ਨੀ ਵਾਂਗੂੰ ਤੁਰੇ।

ਮੰਜ਼ਿਲਾਂ ਤੇ ਪਹੁੰਚਣਾ ਮੁਸ਼ਕਿਲ ਨਹੀਂ, ਰਸਤਿਆਂ ਦੇ ਵਾਂਗ ਨਾ ਜੇਕਰ ਫਟੇ।

2. 'ਕੰਬਦੀ ਕਲਾਈ' ਕਵਿਤਾ ਦਾ ਸਾਰ ਲਿਖੋ।

ਸੈਕਸ਼ਨ -B

3. 'ਪਿੰਜਰ' ਨਾਵਲ ਦਾ ਵਿਸ਼ਾ ਵਸਤੂ ਸਪੱਸ਼ਟ ਕਰੋ।

4. ਪਿੰਜਰ' ਨਾਵਲ ਦੀ ਪਾਤਰ ਉਸਾਰੀ ਸੰਬੰਧੀ ਆਪਣੇ ਵਿਚਾਰ ਪ੍ਰਗਟ ਕਰੋ।

ਸੈਕਸ਼ਨ -C

5 '. ਧੁਨੀ' ਸੰਪਰਦਾਇ ਬਾਰੇ ਸੰਖੇਪ ਚਰਚਾ ਕਰੋ।

6. ਕੀ ਰਸ ਨੂੰ ਕਾਵਿ ਦੀ ਆਤਮਾ ਸਵੀਕਾਰ ਕੀਤਾ ਜਾ ਸਕਦਾ ਹੈ ? ਉੱਤਰ ਦਲੀਲਾਂ ਸਹਿਤ ਦਿਓ।

ਸੈਕਸ਼ਨ – D

7. ਬਹੁਅਰਥਕ ਤੇ ਸਮਾਨਅਰਥਕ ਸ਼ਬਦਾਂ ਤੋਂ ਕੀ ਭਾਵ ਹੈ ? ਉਦਾਹਰਨਾਂ ਸਹਿਤ ਉੱਤਰ ਦਿਓ।

8. ਸ਼ਬਦ ਦੇ ਅਰਥ ਸੰਬੰਧੀ ਸਫੋਟ ਸਿਧਾਂਤ ਬਾਰੇ ਤੁਸੀਂ ਕੀ ਜਾਣਦੇ ਹੋ ?

(For Reappear Candidates Old Syllabus (2023-24))

Exam Code: 121201

Paper Code: 9131

Bachelor of Arts (Semester-I)

Course Title: Psychology (Basic Psychological Processes)

Course Code: BARM-1443

Time Allowed: 3 Hours

Maximum Marks: 60

Note – Attempt five questions in all, selecting atleast one question from each section. The fifth question can be attempted from any section. Each question carries equal (12) marks.

Section – A

1. Write a note on:
   a) Psychoanalysis
   b) Gestalt Psychology

2. Show your familiarity with Experimental Method. Discuss in detail.

Section – B

3. Describe Humanistic Theory of Motivation.

4. Discuss in detail the concept and various types of emotions.

Section – C

5. Discuss types of learning in detail.

6. Define learning and Discuss any two theories of learning.

Section – D

7. Write a detailed note on the "Measures of Central Tendency".

8. Calculate Mean, Median and Mode for the following data:

C.I	F
100-109	1
90-99	4
80-89	11
70-79	24
60-69	43
50-59	56
40-49	45
30-39	30
20-29	11
10-19	3
0-9	3

Exam Code: 121201   Paper Code: 9132

Bachelor of Arts (Semester-I)
Course Title - Punjabi (Compulsory)
Course Code: BARL- 1421

Time Allowed 3 hours   Max Marks- 80

ਨੋਟ: ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਦੇ ਕੁੱਲ ਚਾਰ ਸੈਕਸ਼ਨ ਹਨ। ਹਰ ਸੈਕਸ਼ਨ ਵਿੱਚੋਂ ਇੱਕ ਪ੍ਰਸ਼ਨ ਕਰਨਾ ਲਾਜ਼ਮੀ ਹੈ । ਪੰਜਵਾਂ ਪ੍ਰਸ਼ਨ ਕਿਸੇ ਵੀ ਸੈਕਸ਼ਨ ਵਿੱਚੋਂ ਕੀਤਾ ਜਾ ਸਕਦਾ ਹੈ। ਹਰੇਕ ਪ੍ਰਸ਼ਨ ਦੇ 16 ਅੰਕ ਹਨ ।

ਸੈਕਸ਼ਨ-I

1. ਹੇਠ ਲਿਖੇ ਕਾਵਿ-ਟੋਟਿਆਂ ਦੀ ਪ੍ਰਸੰਗ ਸਹਿਤ ਵਿਆਖਿਆ ਕਰੋ-

   ੳ) ਗੱਲਾਂ ਨਾਲ ਕੀ ਪਿਆ ਪਰਚਾਉਂਦਾ ਏ

   ਉਸਦੇ ਪ੍ਰੇਮ ਨੂੰ ਅਸਾਂ ਪਰਤਾ ਲਿਆ ਹੈ।

   ਮਾਰੇ ਕੁਬਜਾਂ ਦੀ ਹਿੱਕੇ ਇਹ ਗਯਾਨ ਗੋਲੀ,

   ਬੂਹੇ ਵੜਦਿਆਂ ਜਿੰਨੂੰ ਭਰਮਾ ਲਿਆ ਹੈ।

   ਉਹੋ ਕੋਰੜੂ ਮੋਠ ਵਿਚ ਮੋਹ ਪਾ ਕੇ

   ਅਸਾਂ ਆਪਣਾ-ਆਪ ਗੁਆ ਲਿਆ ਹੈ।

   ਅ) ਜੰਗ ਵਿੱਚੋਂ ਲੜ ਕੇ ਸਿਪਾਹੀ ਮੇਰੇ ਆਉਣਗੇ

   ਚੰਦਾਂ ਦਿਆਂ ਚਿਹਰਿਆਂ ਚਿਹਰਿਆਂ 'ਚੋਂ ਚੰਦ ਮੁਸਕਰਾਉਣਗੇ

   ਵਿਹੜੇ ਵਿੱਚ ਠਾਠਾਂ ਮਾਰੂ ਖੁਸ਼ੀ ਸੰਸਾਰ ਦੀ

   ਚੁੰਮ ਚੁੰਮ ਰੱਖੇ ਨਹੀਂ ਇਹ ਕਲਗੀਧਰ ਜੁਝਾਰ ਦੀ ।

   ਕੁਲੇ ਕੁਲੇ ਹੱਥ ਕਿਰਪਾਨਾਂ ਵਿੱਚ ਗੋਰੀਆਂ

   ਕੱਲ ਨੇ ਸਵੇਰ ਦੀਆਂ ਜੋੜੀਆਂ ਮੈਂ ਤੋਰੀਆਂ ।

   ਗਲਤੀ ਵੀ ਹੁਣ ਚਿਹਰਿਆਂ ਤੇ

2. ਮਜ਼ਦੂਰ ਕਵਿਤਾ ਦਾ ਵਿਸ਼ਾ ਵਸਤੂ ਲਿਖੋ।

ਸੈਕਸ਼ਨ-II

3. ਗੁਰੂ ਨਾਨਕ ਦੇਵ ਜੀ ਦੀ ਜੀਵਨੀ ਦਾ ਸਾਰ ਲਿਖੋ ।

4. ਰਾਣੀ ਲਕਸ਼ਮੀ ਬਾਈ ਜੀਵਨੀ ਦਾ ਸਾਰ ਲਿਖੋ।

ਸੈਕਸ਼ਨ-III

5. ਹੇਠ ਲਿਖੇ ਕਿਸੇ ਇਕ ਵਿਸ਼ੇ ਤੇ ਪੈਰ੍ਹਾ ਰਚਨਾ ਕਰੋ।

   1. ਦਹੇਜ ਪ੍ਰਥਾ   2. ਸਮਾਂ   3.ਰਾਜਨੀਤੀ

6. ਹੇਠਾਂ ਦਿੱਤੇ ਪੈਰ੍ਹੇ ਨੂੰ ਪੜ੍ਹ ਕੇ ਪ੍ਰਸ਼ਨਾਂ ਦੇ ਉੱਤਰ ਦਿਓ।

   . ਨਵੇਂ ਸਤਿਗੁਰ ਧਰਮ ਦੀ ਮੂਰਤ ਸਨ ਉਸਰ ਰਹੇ ਨਵੇਂ ਸਮਾਜ ਨੂੰ ਉਹਨਾਂ ਨੇ ਆਤਮ ਤਿਆਗ ਅਤੇ ਪਰਉਪਕਾਰ ਦਾ ਸਬਕ ਚਾਂਦਨੀ ਚੌਕ ਦਿੱਲੀ ਵਿਚ ਸੀਸ ਭੇਟ ਕਰਕੇ ਦਿੱਤਾ ।ਗੁਰੂ ਗੋਬਿੰਦ ਸਿੰਘ ਜੀ ਇਸ ਮਹਾਨ ਵਿਰਸੇ ਦੇ ਉੱਤਰਾਧਿਕਾਰੀ ਸਨ ।ਸੰਗਤ, ਪੰਗਤ, ਸੰਗਠਨ, ਕੇਂਦਰੀ ਸਥਾਨ ਸ਼ਬਦ ਬਹੁਬਿ, ਗੁਰੂ ਗ੍ਰੰਥ ਸਾਹਿਬ, ਸੰਜਮ ਤੇ ਪਰਉਪਕਾਰ ਨੂੰ ਨ ਨਿਧਾਂ ਦਾ ਭੰਡਾਰ ਇਹਨਾਂ ਦਾ ਅਮੁਲ ਵਿਰਸਾ ਸੀ। ਇਸ ਅਮੁਲ ਵਿਰਸੇ ਅਤੇ ਪ੍ਰਭੂ ਦੀ ਇੱਕੋ ਇੱਕ ਓਟ ਉੱਤੇ ਅਟੱਲ ਵਿਸ਼ਵਾਸ ਰੱਖਦਿਆ ਹੋਇਆ ਆਪ ਨੇ ਖਾਲਸਾ ਪੰਥ ਦੀ ਅਗਵਾਈ ਕੀਤੀ।

   1.ਗੁਰੂ ਗੋਬਿੰਦ ਸਿੰਘ ਜੀ ਨੇ ਪੰਥ ਦੀ ਅਗਵਾਈ ਕਿਵੇਂ ਕੀਤੀ ?

   2.ਗੁਰੂ ਤੇਗ ਬਹਾਦਰ ਜੀ ਨੇ ਮਨੁੱਖਤਾ ਨੂੰ ਕੀ ਸਿੱਖਿਆ ਦਿੱਤੀ ?

   3. ਇਹਨਾਂ ਦਾ ਅਮੁਲ ਵਿਰਸਾ ਕੀ ਸੀ ?

   4. ਪੈਰ੍ਹੇ ਦਾ ਢੁਕਵਾਂ ਸਿਰਲੇਖ ਲਿਖੋ?

ਸੈਕਸ਼ਨ -IV

7. ਸਵਰ ਦੀ ਪਰਿਭਾਸ਼ਾ ਦਿੰਦੇ ਹੋਏ ਇਸ ਦੀਆਂ ਕਿਸਮਾਂ ਬਾਰੇ ਜਾਣਕਾਰੀ ਦਿਓ।

8. ਵਿਅੰਜਨ ਤੇ ਵਿਸਤਾਰ ਸਹਿਤ ਨੋਟ ਲਿਖੋ ।

Exam Code: 121201   Paper Code: 9133

Bachelor of Arts (Semester-I)
Course Title: Economics (Microeconomics)
Course Code: BARL-1175

Time: 3 Hours   Max Marks: 80

Note: Attempt five questions in all, selecting atleast one question from each section. Fifth question can be attempted from any section. Each question carries equal (16) marks.

Section-A

1. What does price elasticity of demand signify? Explain the various methods of measuring price elasticity of demand?
2. Define indifference curve and discuss its properties.

Section-B

3. Explain the law of variable proportions. In which stage a rational producer would like to operate.
4. Explain the short run traditional theory of cost in detail.

Section-C

5. What is meant by Perfect Competition? Explain the short run and long period equilibrium of a firm under perfect competition.
6. Discuss price and output determination of a firm under monopolistic competition.

Section-D

7. Critically examine the Classical theory or Interest.
8. Explain the risk and Uncertainty theory of Profit.

Exam Code: 121201   Paper Code: 9134

Programme: Bachelor of Arts (Semester-I)
Course Title: Sociology (Fundamentals of Sociology-I)
Course Code: BARL-1475

Time Allowed: 3 Hours   Max Marks: 80

Note: Attempt five questions in all, selecting atleast one question from each section. Fifth question can be attempted from any section. each question carries equal (16) marks.

Section-A

1. Is sociology a science or not?
   ਕੀ ਸਮਾਜ ਸ਼ਾਸਤਰ ਇੱਕ ਵਿਗਿਆਨ ਹੈ ਜਾਂ ਨਹੀਂ?

2. How is Sociology related to Economics?
   ਸਮਾਜ ਸ਼ਾਸਤਰ ਦਾ ਅਰਥ ਸ਼ਾਸਤਰ ਨਾਲ ਕੀ ਸੰਬੰਧ ਹੈ?

Section-B

3. Define Society? Discuss the characteristics of society?
   ਸਮਾਜ ਨੂੰ ਪਰਿਭਾਸ਼ਿਤ ਕਰੋ? ਸਮਾਜ ਦੀਆਂ ਵਿਸ਼ੇਸ਼ਤਾਵਾਂ ਬਾਰੇ ਚਰਚਾ ਕਰੋ?

4. What do you mean by Association. Explain its characteristics?
   ਐਸੋਸੀਏਸ਼ਨ ਤੋਂ ਤੁਹਾਡਾ ਕੀ ਮਤਲਬ ਹੈ। ਇਸ ਦੀਆਂ ਵਿਸ਼ੇਸ਼ਤਾਵਾਂ ਬਾਰੇ ਦੱਸੋ?

Section-C

5. What role does social groups play in our life?
   ਸਮਾਜਿਕ ਸਮੂਹ ਸਾਡੇ ਜੀਵਨ ਵਿੱਚ ਕੀ ਭੂਮਿਕਾ ਨਿਭਾਉਂਦੇ ਹਨ?

6. What are the features and importance of Primary Groups?
   ਪ੍ਰਾਇਮਰੀ ਸਮੂਹਾਂ ਦੀਆਂ ਵਿਸ਼ੇਸ਼ਤਾਵਾਂ ਅਤੇ ਮਹੱਤਵ ਕੀ ਹਨ

Section-D

7. Define Social Structure? What are the elements of social structure?
   ਸਮਾਜਿਕ ਢਾਂਚੇ ਨੂੰ ਪਰਿਭਾਸ਼ਿਤ ਕਰੋ? ਸਮਾਜਿਕ ਢਾਂਚੇ ਦੇ ਤੱਤ ਕੀ ਹਨ?

8. Discuss the types of status. Also explain difference between both?
   ਸਥਿਤੀ ਦੀਆਂ ਕਿਸਮਾਂ 'ਤੇ ਚਰਚਾ ਕਰੋ। ਦੋਨਾਂ ਵਿੱਚ ਅੰਤਰ ਵੀ ਸਮਝਾਓ?

Exam Code: 121201   **Paper Code: 9135**

Programme: Bachelor of Arts (Semester-I)
Course Title: Human Rights (Conceptual Understanding of Human Rights and Duties)
Course Code-BARL-1295

Time Allowed: 3 Hours   **Max Marks: 80**

Note: Candidates are required to attempt five questions in all, selecting at least one question from each section. The fifth question can be attempted from any Section. Each question carries 16 marks.

Section-A

Q1. Discuss in Detail about Evolution of Human Rights.
मानव अधिकारों के विकास के बारे में विस्तार से चर्चा करें।

Q2. Write about classification of Human Rights.
मानवाधिकारों के वर्गीकरण के बारे में लिखें।

Section-B

Q3. Write about Human Duties and discuss about Nature of Human Duties.
मानवीय कर्तव्यों के बारे में लिखें और मानव कर्तव्यों की प्रकृति के बारे में चर्चा करें।

Q4. Discus relationship between Rights and Duties.
अधिकारों और कर्तव्यों के बीच संबंध पर चर्चा करें।

Section-C

Q5. Write a note on liberal Theory of Human Rights.
मानवाधिकार के उदारवादी सिद्धांत पर एक नोट लिखें।

Q6. Discuss briefly different theories of Human Rights.
मानवाधिकार के विभिन्न सिद्धांतों पर संक्षेप में चर्चा करें।

Section-D

Q7. Write a note on Marxian theory of Human Rights.
मानवाधिकार के मार्क्सवादी सिद्धांत पर एक नोट लिखें।

Q8. Give Feministic theory of Human Rights.
मानवाधिकार का नारीवादी सिद्धांत दीजिए।

2124   12

Exam Code: 121201   Paper Code: 9136

Programme: Bachelor of Arts (Semester: I)

Course Title: Political Science (Political Theory-I)

Course Code: BARL-1406

Time Allowed: 3 Hours   Max Marks: 80

Note: Attempt five questions in all, selecting at least one question from each section. Fifth question can be attempted from any Section. Each question carries 16 marks.

Section-A

1. Write a note on Modern View of Political Science ?

   राजनीति विज्ञान के आधुनिक दृष्टिकोण पर एक नोट लिखें?

   ਵਿਰਥੇ ਰਾਜਨੀਤੀ ਵਿਗਿਆਨ ਦੇ ਆਧੁਨਿਕ ਦ੍ਰਿਸ਼ਟੀਕੋਣ ਬਾਰੇ ਲਿਖੋ?

2. Write about Relationship of Political Science with Psychology andSociology?

   राजनीति विज्ञान का मनोविज्ञान और समाजशास्त्र से संबंध के बारे में लिखें?

   ਰਾਜਨੀਤੀ ਵਿਗਿਆਨ ਦੇ ਮਨੋਵਿਗਿਆਨ ਅਤੇ ਸਮਾਜ ਸ਼ਾਸਤਰ ਨਾਲ ਸਬੰਧਾਂ ਬਾਰੇ ਲਿਖੋ?

Section-B

3. Write about Hobbes Views on origin of State ?

   राज्य की उत्पत्ति पर हॉब्स के विचारों के बारे में लिखें?

   ਰਾਜ ਦੀ ਉਤਪਤੀ ਬਾਰੇ ਹੌਬਿਟ ਦੇ ਵਿਚਾਰਾਂ ਬਾਰੇ ਲਿਖੋ?

2124   12

4. Write about Marxian Theory about Origin of State?

   राज्य की उत्पत्ति के बारे में मार्क्सवादी सिद्धांत के बारे में लिखें?

   ਰਾਜ ਦੀ ਉਤਪਤੀ ਬਾਰੇ ਮਾਰਕਸੀਅਨ ਸਿਧਾਂਤ ਬਾਰੇ ਲਿਖੋ?

Section-C

5. Write about liberal Views about State?

   राज्य के बारे में उदारवादी विचारों के बारे में लिखें?

   ਰਾਜ ਬਾਰੇ ਉਦਾਰਵਾਦੀ ਵਿਚਾਰਾਂ ਬਾਰੇ ਲਿਖੋ?

6. Discuss about Gandhian Views on State?

   राज्य पर गांधीवादी विचारों के बारे में चर्चा करें?

   ਰਾਜ ਬਾਰੇ ਗਾਂਧੀਵਾਦੀ ਵਿਚਾਰਾਂ ਬਾਰੇ ਚਰਚਾ ਕਰੋ ?

Section-D

7. Write a note on limited theory Sovereignty?

   सीमित सिद्धांत संप्रभुता पर एक नोट लिखें?

   ਲਿਮਟਿਡ ਥਿਉਰੀ (ਪ੍ਰਭੂਸੱਤਾ) ਬਾਰੇ ਲਿਖੋ? ?

8. Write about Monistic theory of Sovereignty?

   संप्रभुता के अद्वैतवादी सिद्धांत के बारे में लिखें?

   ਪ੍ਰਭੂਸੱਤਾ ਦੇ ਮੋਨਿਸਟਿਕ ਸਿਧਾਂਤ ਬਾਰੇ ਲਿਖੋ?

Time Allowed: 3 hours   Marks : 40

Note: Attempt Five Questions in all, selecting atleast one question from each
section. Fifth question can be attempted from any section. Each question
carries equal (8) marks.

Section-A

1. Explain thaat in detail..
   ਥਾਟ ਬਾਰੇ ਵਿਸਥਾਰ ਵਿੱਚ ਲਿਖੋ।

2. Write down the definition of following Musical terms:

   - Sangeet
   - ,Naad,
   - Shruti,
   - Alankar..

   ਹੇਠ ਲਿਖੇ ਸੰਗੀਤਕ ਸ਼ਬਦਾਂ ਦੀ ਪਰਿਭਾਸ਼ਾ ਲਿਖੋ:

   ਸੰਗੀਤ,   ਨਾਦ,   ਸ਼ਰੁਤੀ,   ਅਲੰਕਾਰ।

Section-B

3. Define Rag and explain the jaties of ragas..
   ਰਾਗ ਦੀ ਪਰਿਭਾਸ਼ਾ ਦਿਓ ਅਤੇ ਰਾਗਾਂ ਦੀਆਂ ਜਾਤੀਆਂ ਦੀ ਵਿਆਖਿਆ ਕਰੋ।

4. Define Music and Explain the types and importance of Music in human life.
   ਸੰਗੀਤ ਦੀ ਪਰਿਭਾਸ਼ਾ ਦਿਓ ਅਤੇ ਸੰਗੀਤ ਦੀਆਂ ਕਿਸਮਾਂ ਦੀ ਵਿਆਖਿਆ ਕਰੋ

Section-C

5. Write down the classification of indian Musical instruments.
   ਭਾਰਤੀ ਸੰਗੀਤ ਯੰਤਰਾਂ ਦਾ ਵਰਗੀਕਰਨ ਲਿਖੋ।

6. Write the contribution of Pt,Ravi Shankar towards indian classical Music.
   ਭਾਰਤੀ ਸ਼ਾਸਤਰੀ ਸੰਗੀਤ ਲਈ ਪੰਡਿਤ, ਰਵੀ ਸ਼ੰਕਰ ਦੇ ਯੋਗਦਾਨ ਨੂੰ ਲਿਖੋ।

Section-D

7. Explain the following ragas in detail :,Yaman..
   ਹੇਠਾਂ ਦਿੱਤੇ ਰਾਗਾਂ ਦੀ ਵਿਸਤਾਰ ਵਿੱਚ ਵਿਆਖਿਆ ਕਰੋ: ਯਮਨ..

8. Write down the ekgun and dugun of Taal Kehurva.
   ਹੇਠ ਲਿਖੇ ਤਾਲਾਂ ਦਾ ਇਕਗੁਨ ਅਤੇ ਦੁਗੁਨ ਲਿਖੋ: ਕੇਹਰਵਾ।

Exam Code: 121201   Paper Code: 9138
Programme: Bachelor of Arts (Semester-I)
Course Title: Philosophy (Elementary Philosophy)
Course Code: BARL- 1377

Time Allowed: 3 Hours   Max Marks: 80

Note: Attempt five questions in all, selecting at least one question from each section. The fifth question can be attempted from any section. Each question carries 16 marks.

Section-A

Q1. Give a brief introduction of philosophy and explain its Branches.
दर्शन की परिभाषा, अर्थ और शाखाओं की व्याख्या करें।

Q2. Discuss the relation between Relation between Religion and Philosophy. Explain its Philosophical perspective.
धर्म और दर्शन के बीच संबंध की विवेचना कीजिए। इसके नैतिक दृष्टिकोण की व्याख्या कीजिए।

Section-B

Q3. Discuss the factors strengthening World Peace and explain the factors disturbing the World Peace.
विश्व शांति को भंग करने वाले कारकों की विवेचना कीजिए तथा विश्व शांति को सुदृढ़ करने वाले कारकों की व्याख्या कीजिए।

Q4. Explain the social problems of Gender and Casteism. Suggest remedies to overcome it.
लिंग और जातिवाद की सामाजिक समस्याओं की व्याख्या कीजिए। इससे निजात पाने के उपाय सुझाएं।

Section-C

Q5. Explain Ethical concept of Sangat, Pangat and Sarbat Da Bhala in Sikh Philosophy.
संगत, पंगत और सरबत दा भला की गुरु नानक की दार्शनिक अवधारणा की व्याख्या करें।

Q6. Explain Gandhi's concept of Ahimsa and satyagraha.
गांधी की अहिंसा की अवधारणा पर चर्चा करें।

Section-D

Q7. Illustrate the relationship between Culture and Civilization.
संस्कृति और सभ्यता के बीच संबंधों पर चर्चा करें।

Q8. Define Civilization and discuss its different components.
सभ्यता की परिभाषा दीजिए तथा इसके विभिन्न घटकों की विवेचना कीजिए।

Exam Code: 107501   BA (Hons) Eng Ist Sem.   **Paper Code: 9139**
~~Master of Arts (English) (FYIP) (Semester-I)~~
Course Title: Renaissance Poetry
Course Code: BOEL-1212

Examination Time:3Hrs   **Max Mks:40**

Section -A

This section consists of 4 questions. Each question carries 4 marks and will have to be answered in 100 words approximately. Attempt any four questions, selecting one from each unit.

Ques 1. Summarize the sonnet 'When in the chronicle of wasted time'.

OR

Write in brief the theme of the sonnet' Not marbles nor the gilded monuments'

Ques 2. What is the argument of John Donne in the poem 'Death be not proud' by John Donne.

OR

What is the significance of the title of the poem 'Sweetest love,I do not goe'by John Donne.

Ques 3. How is 'On his Twenty -third Birthday' by John Milton a religious poem.

OR

Justify title of the poem 'On his Blindness' by Milton.

Ques 4. Define and explain the following literary terms in brief.

A Sonnet   B Metaphysical poetry

OR

Define and explain the following literary terms in brief.

A Metaphor   B Personification

Section-B

Answer in about 600 words questions in all the following sections.

Ques 5. Discuss the concept of love in the love sonnets of William Shakespeare prescribed.

OR

Discuss the similarities and differences in the sonnet Shall I compare thee to a Summer's day? and My Mistress' eyes are nothing like the Sun.   8 marks

Section-C

Ques 6. Discuss the poem 'The Flea' as one of the iconic metaphysical poems of Donne.

OR

Write a detailed note on the prescribed religious poetry of John Donne.   8 marks

Section-D

Ques 7. Discuss the autobiographical elements in the poems of John Milton with reference to the poems prescribed.

OR

Ques 8. Discuss the deep religious dedication in the poetry of John Milton.   8 marks

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Exam Code: 508501

Paper Code: 9140

Programme: Master of Arts (English) (FYIP) Semester-I
Course Title: History of English Literature (1150-1789)
Course Code: FENL-1215

Time Allowed: 3 hours

Max. Marks: 80

Section–A

Note: Attempt the following questions in about 250 words each. Each question carries 8 marks. (4×8=32 Marks)

1. Give an account of Tottle's Miscellany.

Or

Write a short note on *Canterbury Tales*.

2. What do you understand by revival of learning?

Or

Why Edmund Spenser is called "the child of Renaissance"?

3. Discuss briefly John Donne as a Metaphysical Poet.

Or

Write a short note on *Faery Queene*.

4. Discuss the characteristic features of Neoclassicism.

Or

Explain the concept of the Mock heroic in neoclassical literature and provide an example.

Section–B

Note: Attempt any one question in about 800 words approximately. (16)

5. Discuss Geoffrey Chaucer a representative poet of his Age.

Or

6. Write a note on the contemporaries of Chaucer and their works.

Section–C

Note: Attempt any one question in about 800 words approximately. (16)

7. Write an essay on Ben Johnson's "Comedy of Humours".

Or

8. Consider Milton's contribution to English literature.

Section–D

Note: Attempt any one question in about 800 words approximately. (16)

9. Consider Alexander Pope's contribution to English literature.

Or

10. Discuss contribution of Fielding and Richardson to English literature.

12

(For Reappear Candidates Only (2023-24))

Exam Code: 116401   Paper Code: 9141

Bachelor of Arts (Journalism and Mass Communication) Semester: I
Course Title: Media and Politics
Course Code: BJML-1315

Time Allowed: 3 Hours   **Max Marks: 80**

Note: Attempt five questions in all, selecting at least one question from each section. The fifth question can be attempted from any Section. Each question carries equal (16) marks.

Section-A

1. Discuss the Impact of Freedom Struggle in Making of Modern India.
2. Which are the various things to be kept in mind while doing Parliamentary Reporting?

Section-B

3. Write a detailed note on Lok Sabha Channel.
4. Discuss the concept of Propaganda and Lobbying in detail.

Section-C

5. Explain in detail the Fundamental Rights and Duties?
6. Write a detailed note on Rajya Sabha.

Section-D

7. Discuss the concept of Panchayat system in India.
8. Explain the Duties and Responsibilities of Election Commission of India.

Exam Code: 121301   Paper Code: 9142

Programme: Bachelor of Science (Semester-I)
Course Title: Chemistry (Inorganic Chemistry)
Course Code: BSMM/BSNM-1084 (I)

Time Allowed: 3 hours   Max Marks: 30

Note: -- Attempt **five** Questions in all, selecting at least **one** question from each section. The **fifth** question can be attempted from any Section. Each question carries equal (6) marks.

SECTION-A

1. (a) Formulate the Schrodinger Wave equation for one electron atomic system in three dimensions from equation $\Psi = A \sin 2\pi x/\lambda$. (4)
   (b) What are the conditions that must be fulfilled by the Ψ for acceptable solution? (2)

2. (a) Calculate de Broglie wavelength of an electron moving with a velocity of 10^9 cm/s. Mass of the electron is 9.11×10^{-31} Kg. (3)
   (b) Show diagrammatically how many nodes are present in each of the following:
   (i) 3s-orbital (ii) 2p-orbital (iii) 3d-orbital (3)

SECTION-B

3. (a) What is ionization energy? Discuss various factors that affect Ionisation energy? (3)
   (b) Using Slater's rule; find out the screening constant and then the effective nuclear charge for an 3d-electron in zinc (Z=30)? (3)

4. (a) What is electron affinity? Which has the largest electron affinity F or Cl? Explain why? (3)
   (b) Discuss Pauling Scale of electronegativity in detail? (3)

SECTION-C

5. (a) Define Hybridisation. On the basis of hybridization discuss the shape of BeF_2? (3)
   (b) What are electron deficient compounds. Discuss in detail the structure of diborane? (3)

6. (a) How will you account for the smaller bond order of NO as compared to NO^+, on the basis of molecular orbital theory? (3)
   (b) Explain the structure of PF_5 and SF_6 molecule on the basis of VSEPR theory. (3)

SECTION-D

7. (a) What is Radius ratio rule. Discuss in detail radius ratio for tetrahedral site? (4)
   (b) What is Fajan's Rule. How does it help in predicting the covalent character in a bond? (2)

8. (a) Discuss and draw the structure of NaCl and ZnS (Zinc Blende). Write the differences between the two. (4)
   (b) What is meant by n-type and p-type semiconductors? (2)

2124   20

Exam Code: 121301   Paper Code: 9143

Programme: Bachelor of Science (Semester-I)
Course Title: Chemistry (Organic Chemistry)
Course Code: BSMM/BSNM-1084(II)

Time Allowed: 3 Hours   Max Marks: 30

Note: Attempt five questions in all, selecting atleast one question from each section. Fifth question can be attempted from any section. Each question carries equal (6) marks.

SECTION-A

1. (a) Describe the Average Electron Theory used to determine formal charges on various atoms within a molecule. Illustrate your explanation with a justified example, using the methyl carbocation.   (3)

   (b) How does resonance help in explaining relative acid strength of phenols and alcohols.   (3)

2. (a) Give the main points of difference between inductive effect and electromeric effect.   (3)

   (b) Compare singlet and triplet carbenes. Explain why triplet carbenes are more stable than singlet carbenes, with a detailed discussion of their orbital structures.   (3)
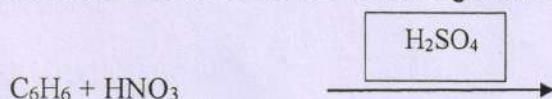
SECTION-B

3. (a) Bromine is less reactive but more selective whereas chlorine is more reactive but less selective. Explain. (3)

(b) Discuss the mechanism of hydrogenation of alkenes and explain how heat of hydrogenation can be used to explain the stability of alkenes.   (3)

4. (a) Explain the Wurtz reaction and its mechanism. Can this method be used for synthesizing unsymmetrical alkanes? If not, provide a reason for its unsuitability.   (3)

   (b) Dehydration of 1-butanol and 2-butanol give the same mixture of alkenes.   (3)

SECTION-C

5. (a) Explain Baeyer's strain theory in brief. How does it account for the reactivity of cyclopropane and cyclobutane rings? Also, discuss the limitations of this theory.   (3)

   (b) Justify that SN_2 reactions proceeds with inversion of configuration.   (3)

6. (a) Give the elimination-addition mechanism of aryl halides taking the example of conversion of chlorobenzene into aniline.   (3)

   (b) Give a brief explanation of the Sachse-Mohr theory of strainless rings. How does this theory explain the stability of cycloalkanes with six or more carbon atoms?   (3)

SECTION-D

7. (a) Define the term aromaticity. How is it related to Huckel rule.   (3)

   (b) Discuss the mechanism of the following reaction   (3)

$$C_6H_6 + HNO_3 \xrightarrow{\boxed{H_2SO_4}}$$

8. (a) Explain meta directing nature of nitro group.   (3)

   (b) What do σ and π complexes refer to? How do they contribute to aromatic electrophilic substitution reactions? Explain with the help of an energy profile diagram.   (3)

Exam Code: 121301   Paper Code: 9144

Programme: Bachelor of Science (Semester-I)
Course Title: Physics (Mechanics)
Course Code: BSNM-1395 (I) and BCSM-1395 (I)

Time Allowed: 3 Hours   **Max Marks: 30**

Note: Attempt five questions in all, selecting at least one question from each section. The fifth question can be attempted from any section. Each question carries 6 marks. Students can use Non-Scientific calculators or logarithmic tables.

Section A

1. (a) What are cartesian coordinates? Find expressions for displacement, velocity and acceleration in cartesian coordinates . (4)

   (b) The cartesian coordinates of a particle vary with time as $x = 4sin2t$,

   $y = 4cos2t$, $z = 6t$, find velocity of particle? (2)

2. Define spherical polar coordinates and find their unit vectors? (6)

Section B

3. State and prove Kepler's second law of planetory motion. (6)

4. Find total energy of a body moving under a central force. Prove that total energy and angular momentum of a body moving under a central force are always conserved. (6)

Section C

5. What is Focault pendulum? Prove that the plane of oscillation of the bob of focault"s pendulum traces an elliptical path due to rotation of earth. Also find the time period of rotation at poles and equator. (6)

6. (a) Find expressions for horizontal and vertical accelerations on a particle moving on surface of earth at latitude λ in northern hemisphere due to rotation of earth. (4)

   (b) Explain the formation of cyclones and trade winds ? (2)

Section D

7. What do you mean by differential and total cross-section of elastic scattering ? Find the realtionship between impact parameter and differential cross-section. (6)

8. Find the expression for torque acting of a rigid body about principal axes in terms of principal moments of inertia. (6)

Exam Code: 121301

Paper Code: 9145

Programme: Bachelor of Science (Semester-I)
Course Title: Physics (Mechanics)
Course Code: BSNM-1395 (I) and BCSM-1395 (I)

Time Allowed: 3 Hours

Max Marks: 60

Note: Attempt five questions in all, selecting at least one question from each section. The fifth question can be attempted from any section. Each question carries 6 marks. Students can use Non-Scientific calculators or logarithmic tables.

Section-A

1. (a) What are cartesian coordinates? Find expressions for displacement, velocity and acceleration in cartesian coordinates . (8)

    (b) The cartesian coordinates of a particle vary with time as

    $x = 4sin2t, y = 4cos2t, z = 6t$, find velocity of particle? (4)

2. Define spherical polar coordinates and find their unit vectors? (12)

Section-B

3. State and prove Kepler's second law of planetory motion. (12)

4. Find total energy of a body moving under a central force. Prove that total energy and angular momentum of a body moving under a central force are always conserved. (12)

Section-C

5. What is Focault pendulum? Prove that the plane of oscillation of the bob of focault"s pendulum traces an elliptical path due to rotation of earth. Also find the time period of rotation at poles and equator. (12)

6. (a) Find expressions for horizontal and vertical accelerations on a particle moving on surface of earth at latitude λ in northern hemisphere due to rotation of earth. (8)

    (b) Explain the formation of cyclones and trade winds ? (4)

Section-D

7. What do you mean by differential and total cross-section of elastic scattering ? Find the realtionship between impact parameter and differential cross-section. (12)

8. Find the expression for torque acting of a rigid body about principal axes in terms of principal moments of inertia. (12)

2124

12

Exam Code: 121301   **Paper Code: 9146, 9147**

Bachelor of Science (Semester-I)
Course Title: Physics (Electricity and Magnetism)
Course Code: BSNM-1395 (II), BCSM-1395 (II)

Time Allowed: 3 Hours   **Max Marks: 30**

Note: Attempt five questions in all, selecting at least one question from each section. The fifth question can be attempted from any Section. Each question carries **6 marks**. Students can use Non-Scientific calculators or logarithmic tables.

Section A

1. (a) A rigid body is rotating with a uniform angular velocity $\vec{\omega}$ about an axis passing through it. Show that curl $\vec{v} = 2\vec{\omega}$ where $\vec{v}$ is linear velocity.   (3)

    (b) Given a vector $\vec{r} = x\hat{i} + y\hat{j} + z\hat{k}$, show that $\nabla(\frac{1}{r^3}) = \frac{-3\vec{r}}{r^5}$ (3)

2. Calculate the electric field due to uniformly charged disc having surface charge density σ at a point on the axis of disc. What form does the expression for the electric field assume if the sheet is infinite?   (6)

Section B

3. A thin metallic wire of length 2l carries a charge λ per unit length uniformly distributed along the wire. The wire lies along x-axis with its centre at the origin. Find the potential at a point distant r from the origin in the xy plane.   (6)

4. Show that the potential due to arbitrary charge distribution at far off points from the charge distribution can be written as the sum of potentials due to monopole, dipole, quadruple etc.   (6)

Section C

5. A charge is situated at a distance d from an infinite conducting sheet maintained at zero potential in the x-y plane. The source charge lies in the region z>0. Using method of images, find electric field at any point in the z>0.   (6)

6. (a) Distinguish between current and current density. Show that the equation
    $\vec{\nabla} \cdot \vec{J} + \frac{\partial \rho}{\partial x} = 0$ implies conservation of charge in space.   (4)

    (b) Show that the potential function x^2-y^2+z satisfies the Laplace's equation.   (2)

Section D

7. Show that the components of electric field $\vec{E}$ in the stationary frame are related to components of electric field $\vec{E}$ in the frame moving with the uniform velocity v along x axis by equations

    $E'_x = E_x$
    $E'_y = \gamma E_y$
    $E'_z = \gamma E_z$

    Where $\gamma = 1/\sqrt{1 - \frac{v^2}{c^2}}$ (6)

8. Derive an expression for the magnetic moment induced in an electron of an atom when diamagnetic material is placed in a uniform magnetic field.   (6)

Exam Code: 121301   Paper Code: 9148

Programme: Bachelor of Science (Semester-I)
Course Title: Physics (Electricity and Magnetism)
Course Code: BSNM-1395 (II), BCSM-1395 (II)

Time Allowed: 3 Hours   **Max Marks: 40**

Note: Attempt five questions in all, selecting at least one question from each section. The fifth question can be attempted from any Section. Each question carries **8 marks.** Students can use Non-Scientific calculators or logarithmic tables.

Section A

1. Calculate the electric field due to uniformly charged disc having surface charge density σ at a point on the axis of disc. What form does the expression for the electric field assume if the sheet is infinite?   (8)

2. (a) Given a vector $\vec{r} = x\hat{\imath} + y\hat{\jmath} + z\hat{k}$, show that $\nabla(\frac{1}{r^3}) = \frac{-3\vec{r}}{r^5}$ (3)

   (b) Show that the gradient of a scalar field $\varphi(\vec{r})$ at any point is a vector field of magnitude equal to the maximum rate of change of $\varphi(\vec{r})$ in the direction along which the rate of change is most rapid.   (5)

Section B

3. (a) Show that the line integral of a vector field around any closed curve is equal to the surface integral of the curl, if the vector field over a surface is bounded by the curve.   (5)

   (b) Show that the electric field $\vec{E} = 6xy\hat{\imath} + (3x^2-3y^2)\,\hat{\jmath}$ is conservative.   (3)

4. Show that the potential at a point due to electric dipole, having dipole moment $\vec{p}$ and located at a origin, at any point is

   $$V = \frac{\vec{p}.\vec{r}}{4\pi\varepsilon_0 r^3}$$

   Where $\vec{r}$ is the position vector of the observation point. Using this value of V find the electric field $\vec{E}$ at the same point.   (8)

Section C

5. (a) Show that the potential function x^2-y^2+z satisfies the Laplace's equation   (3)
   (b) Derive the equation of continuity

   $$\vec{\nabla}.\vec{J} + \frac{\partial\rho}{\partial x} = 0$$

   What form will it take for steady currents?   (5)

6. A charge is situated at a distance d from an infinite conducting sheet maintained at zero potential in the x-y plane. The source charge lies in the region z>0. Using method of images, find electric field at any point in the region z>0. Also find the induced surface charge density on the sheet.   (8)

Section D

7. Derive and discuss the relation of the interaction of a moving charge on the other moving charge and also obtain the expression for the force between the parallel currents.   (8)

8. Derive an expression for magnetic moment induced in an electron of an atom when diamagnetic material is placed in a uniform magnetic field.   (6)

   (b) Show that $\mu_r = 1 + \chi_m$, where μ_r is the relative permeability and χ_m is magnetic susceptibility.   (2)

Exam Code: 121301   Paper Code - 9149

Bachelor of Science (Semester-I)

Course Title: Mathematics (Algebra)

Course Code: BSNM/ BCSM -1333 (I)

Time Allowed: 3 Hours   Max Marks: 80

Note: Attempt five questions in all, selecting at least one question from each section. The fifth question can be attempted from any section. Each question carries equal (16) marks.

Section-A

1 (a). Find the inverse of the matrix $\begin{bmatrix} 1 & 2 & 3 \\ 2 & 4 & 5 \\ 3 & 5 & 6 \end{bmatrix}$ by elementary row operations.   (8)

(b). Solve the equations:

$$2x - y + 3z = 0 \,; 3x + 2y + z = 0 \,; x - 4y + 5z = 0$$ (8)

2 (a). Check the linear dependence or linear independence of the following vectors

$$u = (2,3,1), v = (-1,4,2), w = (1,18,-4)$$ (8)

(b). Find the matrices P and Q such that PAQ is in the normal form, when A is the matrix

$$A= \begin{bmatrix} 1 & -1 & 2 & -1 \\ 4 & 2 & -1 & 2 \\ 2 & 2 & -2 & 0 \end{bmatrix}$$ (8)

Section-B

3 (a). Prove that the characteristic root of a Hermitian matrix are real.   (6)

(b). Verify Cayley-Hamilton theorem for the matrix $A=\begin{bmatrix} 1 & 0 & 2 \\ 0 & -1 & 1 \\ 0 & 1 & 0 \end{bmatrix}$ (10)

4 (a). Find the Eigen values and corresponding Eigen vectors of the matrix $\begin{bmatrix} 1 & 1 & 1 \\ 0 & 2 & 1 \\ 0 & 2 & 3 \end{bmatrix}$ (10)

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(b). Write down the quadratic form corresponding to the symmetric matrix $\begin{bmatrix} 2 & 4 & 5 \\ 4 & 3 & 1 \\ 5 & 1 & 1 \end{bmatrix}$ (6)

Section-C

5 (a).Classify the following form as definite, semi-definite and indefinite:

$$6x^2 + 3y^2 + 14z^2 + 4yz + 18zx + 4xy$$ (8)

(b).Reduce the following quadratic forms to sum of squares by linear transformation:

$$2x^2 + 9y^2 + 6z^2 + 8xy + 8yz + 6zx$$ (8)

6 (a). Reduce the following to conanical forms and find the rank and index:

$$x^2 + 2y^2 + 3z^2 + 2xy + 2yz - 2zx$$ (8)

(b). Prove that every real positive definite or semi-definite matrix can be represented as gram matrix. (8)

Section-D

7 (a). Find the condition that roots of the equation $x^3 + 3ax^2 + 3bx + c = 0$ may be in A.P. Hence show that the roots of $2x^3 + 6x^2 + 5x + 1 = 0$ are in A.P. (8)

(b).Transform the equation $x^4 + 4x^3 + x^2 - 6x = 0$ into one of the same degree in which second term is missing. Also solve the equation. (8)

8 (a). Find the sum of cubes of the roots of the equation $x^3 - 2x^2 + x - 1 = 0$ (6)

(b). Use Cardan's method to solve $x^3 - 3x^2 - 9x - 54 = 0$ (10)

Paper Code - 9150

Exam Code: 121301

Bachelor of Science (Semester-I)
Course Title: Mathematics (Algebra)
Course Code: BECM-1333(I)

Max Marks: 40

Time Allowed: 3 Hours

Note: Attempt five questions in all selecting at least one question from each section. The fifth question may be attempted from any section. All questions carry equal marks.

Section-A

1 (a).Using elementary transformations, find the rank of the matrix $\begin{bmatrix} 1 & 3 & 2 \\ 4 & 6 & 5 \\ 3 & 5 & 4 \end{bmatrix}$ (4)

(b). Show that the following equations are consistent. Also find the solution of (4)

$$2x + 3y - z = 3, x - y + 2z - 5t = 4, x - 2y + 3z - 4t = 5$$

2 (a).For the matrix $A = \begin{bmatrix} 1 & 1 & 2 \\ 1 & 2 & 3 \\ 0 & -1 & -1 \end{bmatrix}$, find two non-singular matrices P and Q such that PAQ is in the normal form and hence find out rank of matrix A. (4)

(b). Is the system of vector $[-1,1,2], [2,-3,1], [10,-1,0]$ linearly dependent? (4)

Section-B

3 (a). Let $A = \begin{bmatrix} 1 & 0 & 0 \\ 4 & 2 & 0 \\ 6 & 5 & 3 \end{bmatrix}$, find an invertible matrix P such that $P^{-1}AP$ is a diagonal matrix. (4)

(b). Determine the Eigen values of the following matrix (4)

$$\begin{bmatrix} 8 & -6 & 2 \\ -6 & 7 & -4 \\ 2 & -4 & 3 \end{bmatrix}$$

4 (a). Verify Cayley – Hamilton theorem for the matrix $A = \begin{bmatrix} 1 & -2 \\ 1 & 4 \end{bmatrix}$ and hence find A^{-1} (4)

(b). Give the linear transformation corresponding to the following matrix: $\begin{bmatrix} 2 & -2 & 1 \\ 3 & -1 & -3 \\ -4 & 4 & 5 \end{bmatrix}$ (4)

(2

Section-C

5 (a) Find the rank and index of the real quadratic form: $2x^2 + y^2 - 3z^2 - 8yz - 4zx + 12xy$ (4)

(b) Define gram matrix. Prove that every real positive definite or semi definite matrix can be represented as a gram matrix. (4)

6 (a) Classify the following form as definite, semi definite and indefinite: (4)

$$5x^2 + 26y^2 + 10z^2 + 4yz + 14zx + 6xy$$

(b). Reduce the following symmetric matrix to a diagonal form and interpret the result in terms of quadratic forms: (4)

$$A = \begin{bmatrix} 1 & 2 & -1 \\ 2 & 0 & 3 \\ -1 & 3 & 1 \end{bmatrix}$$

Section-D

7 (a). Solve the equation $x^3 + 3x^2 + 6x - 8 = 0$, it being given that roots are in G.P (4)

(b). Can the same transformation remove both the second and the fourth terms of the equation

$$x^4 - 12x^3 + 48x^2 + 72x + 35 = 0?$$ If so, solve it completely. (4)

8 (a) .If α, β, Υ are roots of $x^3 - x - 1 = 0$, then prove that $\frac{1+\alpha}{1-\alpha} + \frac{1-\beta}{1-\beta} + \frac{1+\Upsilon}{1-\Upsilon} = -7$ (4)

(b). Solve the following equation by Descarte's method $x^4 + 2x^3 - 7x^2 - 8x + 12 = 0$

(4)

Exam Code: 121301

Paper Code: 9151

Bachelor of Science (Semester-I)
Course Title: Mathematics (Calculus and Trigonometry)
Course Code: BSNM/ BCSM-1333 (II)

Time Allowed: 3 Hours

Max. Marks: 60

Note: Attempt five questions in all selecting at least one question from each section. The fifth question can be attempted from any section. Each question carries equal marks.

Section-A

1 (a) Prove that $\sqrt{7}$ is not a rational number (6)

(b) Solve for x: $\frac{2}{x-2} < \frac{x+2}{x-2} < 2$ (6)

2 (a) Show that $\lim_{x \to 0} \sin \frac{1}{x}$ does not exist (6)

(b) Let $f(x) = \begin{cases} 1, x \leq 3 \\ ax + b, 3 < x < 5 \\ 7, 5 \leq x \end{cases}$ Determine the constants a and b so that f may be continuous for all x (6)

Section-B

3 (a) If $f(x) = \tan x$, show that $f^v(0) = 16$ (6)

(b) Evaluate $\lim_{x \to 0}(\sin x)^{\tan x}$ (6)

4 (a) State and Prove Taylor's Theorem (6)

(b) If $y = (\sin^{-1} x)^2$, find $y_n(0)$ (6)

Section-C

5 (a) If $a = cis\alpha, b = cis\beta, c = cis\gamma$ and $a + b + c = 0$, then prove that $\frac{1}{a} + \frac{1}{b} + \frac{1}{c} = 0$ (6)

(b) Prove that $\left(\frac{\cos\theta + i\sin\theta}{\sin\theta + i\cos\theta}\right)^4 = \cos 8\theta + i\sin 8\theta$ (6)

6 (a) Find the primitive 8th roots of unity (6)

(b) Expand $\cos 7\theta$ and $\sin 7\theta$ in powers of $\cos\theta$ and $\sin\theta$ (6)

Section-D

7 (a) If $i^{\alpha+i\beta} = \alpha + i\beta$, prove that $\alpha^2 + \beta^2 = e^{-(4n+1)\beta\pi}$ (6)

(b) If $-\frac{\pi}{4} \leq \theta \leq \frac{\pi}{4}$, then prove that $\theta = \tan\theta - \frac{1}{3}\tan^3\theta + \frac{1}{5}\tan^5\theta - \dots$ (6)

8 (a) Sum the series upto n terms $\tan^{-1}\frac{1}{3} + \tan^{-1}\frac{2}{9} + \tan^{-1}\frac{4}{33} + \dots$ and deduce the sum upto infinity (6)

(b) Sum the series upto infinity $1 - \frac{\cos 2\theta}{2!} + \frac{\cos 4\theta}{4!} - \frac{\cos 6\theta}{6!} + \dots$ (6)

Exam Code: 121301

Paper Code: 9152

Bachelor of Science (Semester-I)
Course Title: Mathematics (Calculus and Trigonometry)
Course Code: BECM-1333 (II)

Time Allowed: 3 Hours

Max. Marks: 40

Note: Attempt five questions in all selecting at least one question from each section. The fifth question can be attempted from any section. Each question carries equal marks.

Section-A

1 (a) Prove that $\sqrt{3} - \sqrt{2}$ is not a rational number

(4)

(b) Solve for x: $\frac{2}{x-2} < \frac{x+2}{x-2} < 2$

(4)

2 (a) By the use of the definition of limit, show that $\lim_{x \to 2} \frac{x^2-4}{x-2} = 4$

(4)

(b) Discuss the continuity at $x = 0$ of the function $f(x) = \begin{cases} \sin^{-1}|x|, & if\ x \neq 0 \\ 0, & if\ x = 0 \end{cases}$

(4)

Section-B

3 (a) Find the nth derivative of $e^x \cos^3 x$.

(4)

(b) Evaluate $\lim_{x \to \infty} \frac{x^5}{e^x}$

(4)

4 State and Prove Taylor's Theorem

(8)

Section-C

5 (a) Give an example to show that Amp (z), $z = x + iy$, is not necessarily equal to the principal value of $\tan^{-1} \frac{y}{x}$.

(4)

(b) Simplify $(\sin \theta - i \cos \theta)^5$

(4)

6 (a) Show that each primitive 6th root of unity satisfies $z^2 - z + 1 = 0$.

(4)

(b) Expand $\cos 7\theta$ and $\sin 7\theta$ in powers of $\cos \theta$ and $\sin \theta$.

(4)

Section-D

7 (a) Prove that for all $z \in C, \sin z = \frac{2 \tan\frac{z}{2}}{1+\tan^2\frac{z}{2}}$

(4)

(b) Prove that $1 + \frac{1}{3} - \frac{1}{5} - \frac{1}{7} + \cdots = \frac{\pi}{2\sqrt{2}}$.

(4)

8 (a) Sum the series upto n terms $\tan^{-1}\frac{1}{3} - \tan^{-1}\frac{1}{7} + \tan^{-1}\frac{1}{13} + \ldots$ and deduce the sum to infinite terms

(4)

(b) Sum the series upto infinity $\sin\theta - \frac{\sin 3\theta}{3!} + \frac{\sin 5\theta}{5!} - \ldots$

(4)

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Exam Code:120601   Paper Code: 9153

Programme: Bachelor of Science (Bio-Technology) Semester: I

Course Title: Chemistry-I

**Course Code: BBTL-1087**

Time Allowed: 3 Hours   Max Marks: 80

Note: Attempt five questions in all, selecting atleast one question from each section. The fifth question can be attempted from any section. Each question carries equal 16 marks.

Section-A

1. (a) Indicate the type of isomerism exhibited by the following complexes and draw the structures for these isomers :   (4)

   (i) $K[Cr(H_2O)_2(C_2O_4)_2]$

   (ii) $[Co(en)_3]Cl_3$

   (iii) $[Pt(NH_3)(H_2O)Cl_2]$
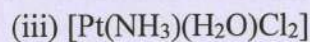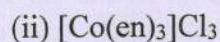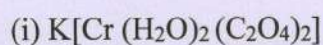
   (b) Write the formula for the following compounds :   (4)

   (i) Hexaaqua iron (II) sulphate

   (ii) Sodium dicyanoaurate (I)

   (iii) triamminetrinitrocobalt (III)

   (iv) sodium trioxalatoferrate (III)

   (c) Discuss the different geometries involved with coordination number 4 and coordination number 6.   (8)

2. (a) Describe the basic postulates of Werner's theory of coordination and its experimental verification.   (8)

   (b) A coordination compound has the formula $CoCl_3.4NH_3$. It precipitates silver ions as AgCl and its molar conductance corresponds to a total no. of ions.   (8)

   (i) Deduce its structural formula and name the complex.

   (ii) Discuss geometrical isomerism exhibited by the complex.

   (iii) Replace ammonia molecules by two molecules of ethylenediamine and discuss isomerism in the resulting complex ion.

Section-B

3. (a) Discuss the valence bond theory of transition metal complexes. Give its limitations.(8)

   (b) Why is $[Co(NH_3)_6]^{3+}$ diamagnetic while $[CoF_6]^{3-}$ is paramagnetic ?   (8)

4. (a) Explain on the basis of VBT, whether the following complexes are diamagnetic and paramagnetic: (8)

   (i) $[Cu(NH_3)_4]^{2+}$

   (ii) $[Ni(CN)_4]^{2-}$

   (b) Explain the concept of electroneutrality and back bonding in coordination complexes. (8)

Section-C

5. (a) Define coordination compounds and discuss the key factors that contribute to their stability. Explain with examples how thermodynamic and kinetic aspects influence the stability of these compounds. (8)

   (b) Compare and contrast crown ethers and cryptands in terms of their structure, properties, and applications. Discuss how cryptands enhance the stability of metal complexes compared to crown ethers, with examples. (8)

6. (a) What is the macrocyclic effect? Discuss how it influences the stability of metal complexes and compare it to the chelate effect. Illustrate your answer with examples.(8)

   (b) Elaborate on the factors affecting the stability of metal ion complexes. Discuss the impact of the ligand's denticity, the metal ion's charge and size, and the nature of the solvent with appropriate examples. (8)

Section-D

7. (a) What is crystal field stabilization energy? Calculate crystal field stabilization energy for the following systems: (8)

   (i) d^4 strong field octahedral

   (ii) d^5 high spin octahedral

   (iii) d^6 tetrahedral

   (b) Explain crystal field splitting in tetrahedral complexes. (8)

8. (a) Show the splitting of d orbitals in octahedral field environment. (8)

   (b) Discuss the factors affecting the magnitude of Δ_0. (8)

Exam Code: 508401   **Paper Code: 9154**

Master of Science (Mathematics) (FYIP), Semester-I

Course Title: Mechanics

Course Code: FMAM-1396

Time Allowed: 3 hours

Max Marks: 60

Note: Attempt five questions in all, selecting atleast one question from each section. Fifth question can be attempted from any section. Each question carries equal marks. Students can use Non-Scientific calculators or logarithmic tables.

Section-A

1. Define radial distance, azimuthal angle and zenith angle. Obtain their relation with Cartesian coordinates of a point. Also find expression for unit vectors of spherical polar coordinate system and prove that they are orthogonal to each other.   12

2. Explain the origin of coriolis force? Derive an expression for coriolis force acting on a freely falling particle on earth? What happens to its path ?   12

Section-B

3. (a) Prove that in center of mass system the magnitude of the velocities of the particles remain unchanged after the elastic scattering.   7

   (b) Find the relationship between angles of recoiling in center of mass and LAB systems.

   5

4. Discuss the scattering of alpha particle from the target nucleus. Prove that the trajectory of alpha particle is hyperbolic. Also find the expression for impact parameter and scattering cross-section.

   12

Section-C

5. (a) What do you understand by central forces. Discuss the properties of the central forces. Prove that the angular momentum is conserved for a body moving under central force.   5

   (b) Write the differential equation of an orbit of a body moving under a central force.   7

6. (a) State and derive Kepler's Laws.   8

   (b) Find the expression for electrostatic self energy of a solid sphere?   4

Section-D

7. Find the expression for angular momentum of a rigid body about principal axis and moment of inertia tensor. Also discuss the conditions for a body to be a spherical top, symmetrical top and asymmetric top.

   12

8. Derive Euler's equations for motion of a rigid body.   12

Exam 'ode : 508401   **Paper Code: 9155**

Programme : Master of Science (Mathematics) FYIP (Semester-I)
Course Title: Physical Chemistry
Course Code: FMAM-1085

Time Allowed: 3 Hours   **Max Marks: 60**

Note: Attempt **Five** Questions in all, selecting at least **one** question from each Section. The fifth question can be attempted from any Section. Each question carries equal (12) marks. Use of non - scientific calculator and logarithm tables are allowed.

Section – A

1. (a) State First law of Thermodynamics. Give its limitations.   (4)
  (b) Show that for adiabatic expansion of an ideal gas.   (4)
$$PV^\gamma = \text{Constant}$$
  (c) Explain open, closed and isolated systems.   (4)
2. (a) State Hess's Law of Heat summation.   (3)
  (b) Derive the relation $\Delta S = C_v \ln \frac{T2}{T1} + R \ln \frac{V2}{V1}$ (6)
$$\Delta S = C_p \ln \frac{T2}{T1} + R \ln \frac{P1}{P2}$$
  (c) Define entropy and give its units.   (3)

Section -B

3. (a) Derive $K_P = K_c (RT)^{\Delta n}$ (3)
  (b) Define the terms Equilibrium, Phase and component.   (3)
  (c) Draw a labelled phase diagram of water system and discuss its salient features.   (6)
4. (a) Define the Law of Chemical Equilibrium and explain it briefly. Name three types of equilibrium constants, mention their units, and describe their relationship.   (6)
  (b) What is Gibbs Free Energy? Explain its significance and how it changes with temperature and pressure.   (6)

Section - C

5.(a) Differentiate between Order and Molecularity of the reaction   (3)
  (b) Discuss van't Hoff's Differential method for determining order of reaction.   (3)
  (c) Derive an expression for rate constant of a second order reaction involving two reactants of different concentrations.   (6)
6. (a) What are the factors influencing rate of reaction.   (6)
  (b) Calculate the activation energy of a reaction whose reaction rate at 300 K gets doubled for 10° C rise in temperature. Calculate the activation energy of the reaction. R = 8.314 K^{-1} mol^{-1} (6)

Section – D

7.(a) What is the transport number of an ion? Explain in detail the Moving Boundary Method used to determine the transport numbers of ions.   (6)
  (b) Explain in details the concept of reversible and irreversible cells.   (6)

8. (a) Define Kohlrausch's law of independent migration of ions in terms of molar conductivity as well as in terms of equivalent conductivity. How does it help in the calculation of limiting molar conductivity of a weak electrolyte.   (6)

  (b) The resistance of 0.01 N solution of salt occupying a volume between two platinum electrodes 1.80 cm apart, 5.4 cm^2 in area was found to be 32 ohm. Calculate equivalent conductance of the solution.   (6)

Exam Code: 121101   **Paper Code:9156**

Programme: Bachelor of Commerce (Semester-I)
Course Title: Financial Accounting
Course Code: BCRL-1093

Time Allowed: 3 Hours   **Max Marks: 80**

Note: Attempt five questions in all, selecting at least one question from each section. The fifth question can be attempted from any section. Each question carries 16 marks. Students can use simple Calculator.

Section-A

1. Define Accounting. Explain the advantages and limitations of Accounting.

2. Explain the concepts of Capital expenditure and Revenue expenditure in detail. Also give the points of difference between Capital expenditure and Revenue expenditure.

Section – B

3. Explain the Accounting treatment of the following adjustments in final accounts:

a. Depreciation

b. Outstanding expenses

c. Interest on Capital

d. Provision for Bad Debts

4. MV Samudri Jahaj commenced journey from Chennai to Kolkata and back. On 31st December, 2023 when books are to be closed the return journey was incomplete. The detail of the whole voyage is as below:

Freight Outward	Rs. 60,00,000
Freight Return	Rs. 40,00,000
Salaries of Crew	Rs. 9,60,000
Stores consumed	Rs. 8,00,000
Coal consumed	Rs. 12,00,000
Port charges	Rs. 4,20,000
Depreciation of Ship	Rs. 6,00,000
Wages of Staff	Rs. 1,20,000
Stevedoring	Rs. 1,40,000
Insurance of Ship	Rs. 3,60,000
Insurance of Freight	Rs. 1,20,000

Address Commission @ 3% and Primage @ 5%. You are required to calculate Net Profit of the Voyage upto 31st December, 2023.

Section- C

5. What is Consignment Accounts? Explain the Cost Price method and Invoice Price method of accounting for consignment.

6. Radhey and Sham joined their hands in order to construct a mall for a company at a contract price of Rs. 8,00,000. 75% of contract price was to be paid in cash and for balance company issued fully paid debentures of the company. For this purpose, a joint bank account was opened by them. Radhey contributed Rs. 3,00,000 and Sham Rs. 2,00,000. Following information was provided by them:

Material given by Radhey	Rs. 30,000
Material purchased from market	Rs. 4,00,000
Wages and Salaries paid	Rs. 2,00,000
Material given by Sham	Rs. 20,000
Other expenses paid	Rs. 30,000

They decided to share profit or loss in the ratio of 2:1. The mall was completed and price was received by them. 50% of the debentures were sold at Rs. 80,000 and the balance was taken by Radhey and Sham equally at an agreed value of Rs. 70,000. The unused material was taken by Sham at Rs. 50,000. Prepare necessary account in the books of Joint Venture.

Section- D

7. Discuss the objectives and merits of preparing departmental accounts. Also explain and illustrate the basis of allocation of various indirect expenses among various departments.

8. Jeewan Bros. of Bombay have a branch at Delhi. The goods are sent to branch at cost price to be sold for cash and credit. The transactions during the year are as under:

Branch Stock on 1.1.2011	Rs. 9,000
Branch Debtors on 1.1.2011	Rs. 3,000
Branch Bank Balance on 1.1.2011	Rs. 2,800
During 2011, Goods sent by Head Office to Branch	Rs. 18,000
Goods returned by branch	Rs. 360
Cash sales paid into bank	Rs. 4,800
Credit Sales	Rs. 24,000
Goods returned by customers	Rs. 180
Cheques received from customers	Rs. 22,000
Discount allowed	Rs. 440
Bad Debts written off	Rs. 260
Cash remittance by branch to Head Office	Rs. 25,000
Wages and Salaries paid by branch	Rs. 400
Miscellaneous expenses paid by branch	Rs. 200
Rent and Rates paid by Head Office	Rs. 500
Branch Stock on 31.12.2011	Rs. 6,420
Branch Debtors	?
Branch Bank	?

Compute branch profit under Stock and Debtors method.

Exam Code: 121101   Paper Code: 9157

Programme: Bachelor of Commerce Semester – I
Course Title: Computer Fundamentals
Course Code: BCRM–1127

Time: 3 Hours   Marks: 25

Note: Attempt five questions in all, selecting at least one question from each section. The fifth question may be attempted from any section. Each question carries 5 marks. Use of Simple calculator is allowed.

Section-A

Q.1-What is Secondary Memory? Explain any two secondary storage devices in detail.   (5)

Q.2-What do you mean by Data and Information? Explain the points of difference between data and information.   (5)

Section-B

Q.3- How will you create and open MS-Word file? Explain working in a document.   (5)

Q.4-What is Spell Checker? Write down the steps to implement it in a document.   (5)

Section-C

Q.5-How will you enter and edit text in an MS-Excel table?   (5)

Q.6- What is a formula? How will you use "cell references" with formulae?
                                                                       (5)

Section-D

Q.7-What is a Worksheet? How will you link different worksheets in MS-Excel?
                                                                       (5)

Q.8- What is filtering? How will you filter data in an Excel sheet? Explain with an example.   (5)

Exam Code: 121101   Paper Code: 9158

Programme: Bachelor of Commerce (Semester-I)
Course Title: Business Communication
Course Code: BCRL-1095

Time Allowed: 3 Hours   Max Marks: 80

Note: Attempt 5 questions in all, selecting atleast one question from each
section. Fifth question can be attempted from any section. Each question
carries 16 marks.

Section-A

1. What are the common barriers to effective business communication and the means to overcome them?

2. Discuss the characteristics and forms of formal and informal communication.

Section-B

3. What are the factors affecting presentations? How can presentations be made more effective?

4. What do you mean by etiquettes? How are they important in business?

Section-C

5. Write an office memo warning an employee against his habit of reading newspapers and magazines during office hours.

6. What considerations must be kept in mind while drafting a sales letter? Exemplify.

Section-D

7. Describe the essentials of a good resume.

8. Discuss the essentials for appearing in an interview.

Exam Code: **121101**   Paper Code: 9159

Programme: Bachelor of Commerce
Semester-I

Course Title: Business Organisation

Course Code: BCRL-1094

Time Allowed: 3 Hours   Max Marks: 40

Note: Candidates are required to attempt five questions selecting one question from each section. The fifth question on may be attempted from any section. Each question carries 8 marks.

Section -A

1. What do you mean by profession? How it is different from Business?

2. What do you mean by social responsibility of business? Discuss the social responsibility of a business towards various parties?

Section -B

3. Discuss Sole proprietorship and Partnership form of organisation. How sole proprietorship is different from Partnership?

4. What do you mean by joint stock company? Explain its characteristics.

Section -C

5. What are different factors that effect the location of Industry ? Explain in detail?
6. What are the different factors to be considered while making firm optimum?

Section -D

7. Discuss the importance & functions of Stock Exchanges?
8. What do you mean by Chamber of Commerce? Explain its functions also?

Exam Code: 121101

Paper Code: 9160

Programme: Bachelor of Commerce
Semester-I

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Course Code: BCRL-1094

Time Allowed: 3 Hours

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Section -A

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Exam Code: 121101   Paper Code: 9161.
   (60)

Programme: Bachelor of Commerce
Semester-I

Course Title: Business Statistics

Course Code: BCRL-1176

Time Allowed: 3 Hours   Max Marks: 40

Note: Question paper comprises of 4 sections. Students are required to attempt five questions, selecting at least one from each section. The fifth question may be attempted from any section. Each question carries 8 marks. Simple calculators can be allowed to make necessary calculations.

Section -A

1. Define Aritmatic mean. Also explain various mathematical properties of it.

2. From the following data find out missing frequency, given the median equal to 90

Class intervals	0-25	25-50	50-75	75-100	100-125	125-150	150-175
Frequency	4	8	X	15	10	7	5

Section —B

3. A distribution consists of three parts, characterized as follows find out combined arithmetic mean and combined standard deviation:

Parts	No. of Items	Aritmetic	Standard deviation
1	200	20	3
2	250	10	4
3	300	15	5

4. In the correlation study, the following values are obtained

	X	Y
Mean	65	67
Standard	2.5	3.5
Coefficient of Correlation	0.8	

Find lines of regression of X on Y and Y on X

Section-C

5. What is index number? What are the various problems faced while construction index numbers?

6. From the following data find out the price index for Pasche's and Marshal Edgeworth's method.

Commodities	Base year		Current Year	
	Price	Quantity	Price	Quantity
A	10	12	12	15
B	7	15	5	20
C	5	24	9	20
D	16	50	14	5

Section D

7. From the following data fit trend using 5 yearly moving average

Year	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Sales in lakhs	13	12	12	13	14	13	12	12	14	15	15	14	14	16	17

8. (i) Probability that Mr. A will die after 5 years is 0.4. Probability that his wife will die after 5 years is 0.7. Find out the probability that

(a) None of them will die after 5 years

(b) Both of them will be dead after 5 years

(ii) A bag contains 7 white and 9 black balls. Two balls are drawn randomly.

Find out the probability that

(a) both are white

(b) both are black.

Exam Code: **121101**
(60)

Paper Code: **9/62**

Programme: Bachelor of Commerce
Semester-I

Course Title: Business Statistics

Course Code: BCRL-1176

Time Allowed: 3 Hours

Max Marks: **80**

Note: Question paper comprises of 4 sections. Students are required to attempt five questions, selecting at least one from each section. The fifth question may be attempted from any section. Each question carries **16** marks. Simple calculators can be allowed to make necessary calculations.

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Sales in lakhs	13	12	12	13	14	13	12	12	14	15	15	14	14	16	17